NM SLD Radiochemistry Lab Data

SMC Samples 2009

```
SMC-00; SMC-01; SMC-03; SMC-04; SMC-05;

SMC-06, SMC-07; SMC-08; SMC-09; SMC-10;

SMC-11; SMC-12; SMC-13; SMC-14; SMC-16;

SMC-17; SMC-18; SMC-20; SMC-21; SMC-22;

SMC-23; SMC-24; SMC-25; SMC-26; SMC-28;

SMC-30, SMC-32; SMC-33; SMC-34; SMC-25;

SMC-36, SMC-31.
```

9787406

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

April 27, 2009

Request ID No. 2424855 **ANALYTICAL REPORT**

SLD Accession No. RC-2009-0036

Distribution

(x) User 55321

(x) Submitter 541

. Client -

(x) SLD Files

To: NMED GWQ Bureau Abatement and Asse P.O. Box 26110

Santa Fe, NM 87502

Submitter: NMED - Ground Water Pollution Prevention S

P.O. Box 26110

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION On: 3/31/2009 By: MARK GARMAN Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION In/Near: **SMC-00** At: 10:39

	Analytical Results								
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	-0.2	0.2	0.5	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	-0.2	0.2	0.5	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	0.4	0.5	0.9	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	0.4	0.5	1.0	pCi/L	Crowell	SM 7110 B		
15262-20-1	Radium-228, SDWA Method	0.08	0.10	0.15	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported, or "less than twice the standard deviation".

Reviewed By:

4/27/2009

Supervisor, Radiochemistry Section

RECEIVED MAY ZUUS 82 12 92 St

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQUES	T FORM (INTERACTIVE)
		Scientific Laboratory Div 700 Camino de Salud NE - PO			• • -
2424855	One Form Per Sample	Albuquerque, NM 87196 Phone 505 841 2500		One Form Per Sample	BC0900036
LAB	DATE DATE	6 55321 (GWB - remediation su	perfund)	55000 (DWB - SD)	NA - fee-for-service)
USE>>>00 (STAMP		ntion)	55420 (DWB - nor	n-reg. contaminants)
LAB USE - SAMPLE TEMP	ERATURE (deg. C):	55910 (SWQB - MS)		C 64000 (Individual	client fee-for-service)
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-di	igit user code)
SUBMITTER CODE (3-digit): 541 W55 ID (xxnnnn	innn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Bas	sin Site Investigation			
FACILITY LOCATION (if no	WSS complete boxes):	County McKinley	City:	Sto	ate: NM, or change to:
SAMPLING LOCATION:	SMC-	-00			
DATE COLLECTED (MM-D	D-YY): 3/31	109 BY (First Last) Name:	MARK	< GARMA	N
TIME COLLECTED (HH:MM	124-hr): 1035	Sampler ID #			
SAMPLE INFO CONTACT	Phone: 476-377	77 Name if not collector:	David L. Mayers	son	
New/Change Address	for Submitter	> Name:			11
New / Change Address	for WSS/Client	> Address:	1190 St. Francis D	Dr. N2300	
Send an additional repo	ort to	> City:	Santa Fe, NM 87	502	
FIELD DATA (Non-cl	hlorinated Chlorinate	ed Residual (mg/l): pH:	Conductivity	r (u5/cm): Te	mperature (deg. C):
REMARKS Field re	marks:		n d		
DOCUMENTATION		Compliance Non-compliance		h facility 💢 Grabs	ample Composite
SAMPLE Filtered water	r 🌀 Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ne C Tissue C S	aliva C Swipe/Smear
TYPE Other air/liqu	nid/solid Describe:	72 N L L C		1,000	
PRESERVATION None	▼ Shipped at < 4 C	HCl added to pH < 2 HNO3	added to pH < 2	H2SO4 added to pH	<2 Asc. acid added
	acidify NaOH added	d to pH > 12 Other Describe:	lab to acidify		
HM ANALYSES LIST					ta ga 🕳 20
OR ANALYSES LIST			4_ 19		
RC ANALYSES LIST	803 SDWA sequential v	with Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)		
WC ANALYSES LIST					
ADDITIONAL ANALYSES					P
FOR Field preservation	on confirmed Prese	erved to pH > 12 at Lab Preser	rved to pH < 2 at L	ab Date/Initial:	Aproq TE
USE Lab Remarks:					
	PI	lease use CHAIN OF CUSTODY FOR	M when requirem	ents mandate	
We, the undersigned, certif		the sample identified on	the container(s) a	and this form by Reque	est ID number
was transferred with evide	Date ntiary seal(s) (check applic	Time cable box) (Not Present (F	Present & Intact	Present & Damageo	1
Released by:	7.01 A.W	& Received by:			
	Signature	Additional Transfer If Applie	cable	Signature	
We, the undersigned, certif		the sample identified on	the container(s) a	and this form by Reque	est ID number
was transferred with evide	Date ntiary seal(s) (check applic	Time cable box) \(\tag{Not Present}\) \(\tag{Pr}\)	esent & Intact (Present & Damaged	1
Released by:		& Received by:			
Print Form	Signature		27/00	Signature	Reset Form
THE COUNTY OF THE PARTY OF THE		Form last modified on 12/2	23/08		neset i Oilli

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

May 29, 2009

Request ID No. 2424856 ANALYTICAL REPORT
SLD Accession No. RC-2009-0037

Distribution

(x) User 55321

(x) Submitter 541

. Client -

(x) SLD Files

To: NMED - Ground Water Pollution Preventio P.O. Box 26110

Santa Fe, NM 87502

User: DAVID L MAYERSON
NMED GWQ Bureau Abatement and Assessm
P.O. Box 5469
Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 3/31/2009 By: MARK GARMAN Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION

At: 13:35 In/Near: SMC-01

Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	16.4	1.5	1.2	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	18.8	1.7	1.4	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	9.9	1.5	2.2	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	9.7	1.5	2.1	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	33.	3.3	1.0	uG/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.04	0.01	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.14	0.06	0.12	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalja

5/29/2009

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQU	EST FORM (INTERACTIVE
		Scientific Laboratory Div 700 Camino de Salud NE - PC			LIBERTIE TRALIFFE PRIES FOUR PRIES BALLI BRILL B
2424856	One Form Per Sample	Albuquerque, NM 87196	- 4700	One Form Per Sample	BCOCCOS-
LAB	DATE	Phone 505 841 2500 55321 (GWB - remediation su			RC0900037 DWA - fee-for-service)
USE>SS IN R - 1 IN	9:16 << <time< td=""><td>55410 (GWB - pollution preve</td><td></td><td>to and prove decimal</td><td>on-reg. contaminants)</td></time<>	55410 (GWB - pollution preve		to and prove decimal	on-reg. contaminants)
LAB USE - SAMPLE TEMP	PERATURE (dea. C):	55910 (SWQB - MS)		64000 (Individu	ual client fee-for-service)
SAMPLE PRIORITY: (1, 2,		55920 (SWQB - PSRS)		OTHER (enter 5	
			FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Bas		FACILITY ID:		SITE ID:
FACILITY LOCATION (if n		County: McKinley	City:		State: NM, or change to:
		- A	City.		state. (Wit, or change to.
SAMPLING LOCATION:	SMC-	701		211 () -	1. (-)
DATE COLLECTED (MM-D	2/21/	BY (First Last) Name:		ek GAR	MAN
TIME COLLECTED (HH:MI	- 153-	V 100 100 100 100 100 100 100 100 100 10	Maria de la Caración		
SAMPLE INFO CONTACT	1 3000 000	45	David L. Mayer	son	
New / Change Address					
New / Change Address	for WSS/Client	> Address:	1190 St. Francis I	Dr. N2300	
'	ort to		Santa Fe, NM 87	502	
FIELD DATA (Non-c	thlorinated Chlorinate	ed Residual (mg/l): pH:	Conductivity	y (uS/cm):	Temperature (deg. C):
	emarks:				
SAMPLING T	NMED monitoring	Compliance Non-compliance	te Split wit	th facility 💢 Gral	b sample Composite
DOCUMENTATION	Finished water 😾 Raw	water Confirmation O	her Describe:		
SAMPLE Filtered water	er 🌀 Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ine (Tissue (Saliva C Swipe/Smear
TYPE Other air/liq		214			
▼ None	Shipped at < 4 C	HCl added to pH < 2 HNO	added to pH < 2	☐ H2SO4 added to p	pH < 2 Asc. acid added
IPRESERVATION		d to pH > 12 Other Describe:			100
HM ANALYSES LIST			78 79 1		
OR ANALYSES LIST					
RC ANALYSES LIST	803 SDWA sequential w	vith Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)		
WC ANALYSES LIST				77.5	
ADDITIONAL ANALYSES				SMA An	
FOR Field preservati	on confirmed Prese	erved to pH > 12 at Lab Prese	rved to pH < 2 at L	ab Date/Initial:	IApro9 OLE
USE Lab Remarks:	3. H.			1	11,501 (32
USE ESTIMATE.	DI	ease use CHAIN OF CUSTODY FOR	M when requirer	ents mandate	
We, the undersigned, certi	fy that onat Date	the sample identified on	the container(s)	and this form by Req	uest ID number
was transferred with evide	entiary seal(s) (check applic	able box) (Not Present ()	Present & Intact	C Present & Damag	jed
Released by:		& Received by:			
	Signature	Additional Transfer If Appli	cable	Signature	
We, the undersigned, certi	fy that onat	the sample identified on		and this form by Req	uest ID number
was transferred with evide	Date entiary seal(s) (check applic	Time able box) \(\text{Not Present} \(\text{Present} \)	resent & Intact	(Present & Damag	ned
Released by:		& Received by:	لاين ورسوس		
	Signature			Signature	
Print Form		Form last modified on 12/	23/08		Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

May 29, 2009

Request ID No. 2424857

ANALYTICAL REPORT

SLD Accession No. RC-2009-0038

Distribution

(x) User 55321

(x) Submitter 541

. Client -

(x) SLD Files

To: NMED - Ground Water Pollution Preventio P.O. Box 26110 Santa Fe, NM 87502

User: DAVID L MAYERSON NMED GWQ Bureau Abatement and Assessm P.O. Box 5469 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

LOCATION

DEMOGRAPHIC DATA

On: 3/31/2009 At: 10:50	9 By: MARK GARMAN In/Near:	Fac		NC-03	CREEK BAS	SIN SITE INVESTIG	ATION			
Analytical Results										
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method			
12587-46-1	Gross Alpha w/ Am-241 Reference	5.6	0.9	1.2	pCi/L	Crowell	SM 7110 B			
12587-46-1	Gross Alpha w/ U-nat Reference	6.5	1.0	1.4	pCi/L	Crowell	SM 7110 B			
12587-47-2	Gross Beta w/ Cs-137 Reference	5.1	1.2	2.2	pCi/L	Crowell	SM 7110 B			
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	5.0	1.2	2.1	pCi/L	Crowell	SM 7110 B			
13982-63-3	Radium-226, SDWA Method	0.01	0.01	0.01	pCi/L	Valdez	903.1			
15262-20-1	Radium-228, SDWA Method	-0.08	0.04	0.12	pCi/L	Ewing	904.0			

Notations & Comments:

COLLECTION

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

RECEIVED

JUN 2009

Reviewed By:

5/29/2009

NEW MEXICO DEPART	MENT O	F HEALTH		CHEMISTRY BUREA		NALYTICAL REQUES	T FORM (INTE	RACTIVE
2424857		ne Form Sample	700 C	cientific Laboratory Div amino de Salud NE - PC buquerque, NM 87196 Phone 505 841 250) Box 4700 - 4700	One Form	RC0900	
424 G 7 111 11	11 9: 16			321 (GWB - remediation su		55000 (DWB - SDV	vA - tee-tor-service	e)
ONLY		STAMP		410 (GWB - pollution preve	ention)	55420 (DWB - non	≅	
LAB USE - SAMPLE TEMP	PERATURE	(deg. C): 12		910 (SWQB - MS)		64000 (Individual		ice)
SAMPLE PRIORITY: (1, 2,	3 - call Lab	oif 1 or 2) 3	C 555	9 20 (SWQB - PSRS)		OTHER (enter 5-di	git user code)	
SUBMITTER CODE (3-dig	it): 541	WSS ID (xxnnnnn	nn):		FACILITY ID:	: 4	SITE ID:	
FACILITY / WSS NAME:	San Ma	ateo Creek Basi	n Site Ir	rvestigation				
FACILITY LOCATION (if n	o WSS com	plete boxes):	Count	McKinley	City:	Sto	ate: NM, or change	e to:
SAMPLING LOCATION:	<	SMC-	03	*****				
DATE COLLECTED (MM-E	DD-YY):	3/31/	0.9	BY (First Last) Name:	MAR	K GARMA	N	
TIME COLLECTED (HH:MI	M 24-hr):	105	0	- Sampler ID #				
SAMPLE INFO CONTACT	Phone:	476-377	7	Name if not collector:	David L. Mayer	rson		=
New / Change Address	for Submit	tter	>	Name:				
New / Change Address	for WSS/	Client	>	Address:	1190 St. Francis	Dr. N2300		
Send an additional rep	ort to		>	City:	Santa Fe, NM 87	7502		-
AND	chlorinated emarks:	Chlorinated	d Resid	ual (mg/l): pH:	Conductivit	ty (u5/cm): Ter	mperature (deg. C	C):
SAMPLE Filtered water TYPE Other air/liq	uid/solid	on-filtered water Describe:	C Soil	Confirmation Of Old Sediment Sludge Colded to pH < 2 HNO	Blood C Ur		The L	oe/Smear id added
PRESERVATION Lab t	o acidify	☐ NaOH added	to pH >	12 Cother Describe:	lab to acidify			ên ^H iệ
HM ANALYSES LIST								
OR ANALYSES LIST		(Pro-				ion in the last		
RC ANALYSES LIST	803 SDW	A sequential w	ith Ra-2	28, 2 gal. (EPA 900.0/90	03.1/904.0, etc.))		
WC ANALYSES LIST	=	7 =		j ₁ =	No.			-1.0%
ADDITIONAL ANALYSES			N. S. C.	R				
FOR Field preservati	on confirm	ned Prese	ved to p	H > 12 at Lab Prese	rved to pH < 2 at i	Lab Date/Initial:	Apro9 on	E
USE Lab Remarks:								
·		Ple	ase use (HAIN OF CUSTODY FOR	RM when requiren	ments mandate	-	
We, the undersigned, certi	fy that on			the sample identified on	the container(s)	and this form by Reque	st ID number	
was transferred with evide	entiary seal		lime Ible box)	(Not Present ()	Present & Intact	C Present & Damaged	l	
Released by:				& Received by:				
neleased by.	*	Signature		Additional Transfer If Appli		Signature		
We, the undersigned, certi	fy that on .	at		the sample identified on	the container(s)	and this form by Reque	st ID number	
was transferred with evide		Date	Time					
Released by:			<u>.</u>	& Received by:				
		Signature				Signature		
Print Form			F	form last modified on 12/2	23/08		Reset Fo	orm

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424858 **ANALYTICAL REPORT**

SLD Accession No. RC-2009-0039

Distribution

(x) User 55321

(x) Submitter 541

. Client -

(x) SLD Files

To: David Mayerson NMED GWQ Bureau Abatement and Asse P.O. Box 5469 Santa Fe, NM 87502 Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION
On: 3/31/2009 By: MARK GARMAN Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 12:24 In/Near: SMC-04

	Analytical Results									
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method			
12587-46-1	Gross Alpha w/ Am-241 Reference	17.4	1.7	0.9	pCi/L	Crowell	SM 7110 B			
12587-46-1	Gross Alpha w/ U-nat Reference	21.1	2.1	1.1	pCi/L	Crowell	SM 7110 B			
12587-47-2	Gross Beta w/ Cs-137 Reference	5.4	1.3	1.6	pCi/L	Crowell	SM 7110 B			
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	5.2	1.3	1.6	pCi/L	Crowell	SM 7110 B			
07440-61-1	Uranium, Mass Concentration	19.	1.9	1.0	uG/L	Patel	200.8			
13966-29-5	Uranium-234, by Alpha Spec.	11.1	0.34	0.10	pCi/L	Ewing	7500-UC			
07440-61-1	Uranium-238, by Alpha Spec.	5.61	0.19	0.05	pCi/L	Ewing	7500-UC			
13982-63-3	Radium-226, SDWA Method	0.08	0.01	0.01	pCi/L	Valdez	903.1			
15262-20-1	Radium-228, SDWA Method	0.15	0.05	0.13	pCi/L	Ewing	904.0			

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Laboratory Comments:

Sample contained a small amount of sediment.

Reviewed By: _____

Nidal Jadalla

6/19/2009

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA Scientific Laboratory Div		NALYTICAL REQUEST	FORM (INTERACTIVE)
	One Form	700 Camino de Salud NE - PC	Box 4700	One Form	
2424858	Per Sample	Albuquerque, NM 87196 Phone 505 841 250		Per Sample	RC0900039
LAB	DATE	6 55321 (GWB - remediation su	iperfund)	55000 (DWB - SDWA	
ONLY	: / 9: 6< <time STAMP</time 	55410 (GWB - pollution preve	ention)	55420 (DWB - non-re	g. contaminants)
LAB USE - SAMPLE TEMP	PERATURE (deg. C):	C 55910 (SWQB - MS)		64000 (Individual clie	ent fee-for-service)
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	(55920 (SWQB - PSRS)		OTHER (enter 5-digit	user code)
SUBMITTER CODE (3-dig	it): 541 WSS ID (xxnnnni	nnn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Bas	in Site Investigation			
FACILITY LOCATION (if n	o WSS complete boxes):	County: McKinley	City:	State	: NM, or change to:
SAMPLING LOCATION:	SMC-	04			
DATE COLLECTED (MM-E			MAC	2K GARMI	9-XV
TIME COLLECTED (HH:MI	M24-hr): 1224	- Sampler ID #			
SAMPLE INFO CONTACT	Phone: 476-377	7 Name if not collector:	David L. Mayers	son	
	for Submitter	> Name:			
	for WSS/Client	> Address:	1190 St. Francis [Dr. N2300	
Send an additional rep	ort to	> City:	Santa Fe, NM 87	502	
FIELD DATA (Non-c	chlorinated Chlorinate	d Residual (mg/l): pH:	Conductivity	/ (uS/cm): Temp	perature (deg. C):
	emarks:				
SAMPLING T	NMED monitoring	Compliance Non-complian	ce Split wit	h facility 💢 Grab sam	ple Composite
DOCUMENTATION	Finished water 🔀 Raw	water Confirmation O	ther Describe:		
SAMPLE Filtered water	Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ne C Tissue C Salin	ra C Swipe/Smear
TYPE C Other air/liq	uid/solid Describe:	Ø pu	atto		
PRESERVATION None	? ▼ 5hipped at < 4 C	HCl added to pH < 2 HNO.	added to pH < 2	☐ H2SO4 added to pH < 2	2 Asc. acid added
	o acidify 📗 NaOH added	to pH > 12 Other Describe:	lab to acidify		
HM ANALYSES LIST					
OR ANALYSES LIST					
RC ANALYSES LIST	803 SDWA sequential w	ith Ra-228, 2 gal. (EPA 900.0/9	03.1/904.0, etc.)		
WC ANALYSES LIST					F 30
ADDITIONAL ANALYSES					
FOR Field preservati	on confirmed Prese	erved to pH > 12 at Lab Prese	erved to pH < 2 at L	ab Date/Initial: IAp	rog JLE
USE Lab Remarks:					
	Ple	ease use CHAIN OF CUSTODY FOR	RM when requirem	ents mandate	
We, the undersigned, certi	fy that onat _	the sample identified on	the container(s) a	and this form by Request	ID number
	Date	Time able box) (Not Present (
	muary seal(s) (cneck applic			r resent a bantagea	
Released by:	Signature	& Received by:		Signature	
	w-g	Additional Transfer If Appli	cable		
We, the undersigned, certi	fy that onat _	the sample identified on	the container(s) a	and this form by Request	ID number
	Date	Time able box) (Not Present (P			
Released by:	Signature	& Received by:		Signature	
Print Form	539250.00	Form last modified on 12/	23/08		Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424859 ANALYTICAL REPORT

SLD Accession No. RC-2009-0040

Distribution

(x) User 55321

(x) Submitter 541

. Client -

(x) SLD Files

To: David Mayerson NMED GWQ Bureau Abatement and Asse P.O. Box 5469

Santa Fe, NM 87502

Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

COLLECTION

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

LOCATION

DEMOGRAPHIC DATA

On: 3/31/2009 At: 14:04	By: MARK GARMAN In/Near:	Fac	The state of the s	NC-05	CREEK BAS	SIN SITE INVESTI	GATION
	An	<u>alytical F</u>	Results	<u> </u>			
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method
12587-46-1	Gross Alpha w/ Am-241 Reference	20.8	1.9	0.9	pCi/L	Crowell	SM 7110 B
12587-46-1	Gross Alpha w/ U-nat Reference	24.8	2.3	1.1	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Cs-137 Reference	10.7	1.5	1.5	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	10.3	1.5	1.4	pCi/L	Crowell	SM 7110 B
07440-61-1	Uranium, Mass Concentration	26.	2.6	1.0	ug/L	Patel	200.8
13982-63-3	Radium-226, SDWA Method	0.05	0.02	0.01	pCi/L	Valdez	903.1
15262-20-1	Radium-228, SDWA Method	-0.17	0.05	0.12	pCi/L	Ewing	904.0

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported, or "less than twice the standard deviation".

Reviewed By:

6/19/2009

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA	U AI	NALYTICAL REQUEST	FORM (INTERACTIVE)
4.20 GPA VI GRADE TO THE TOTAL THE TOTAL TO THE TOTAL TOT	Secretary and productive of the productive of the secretary of the secreta	Scientific Laboratory Div	ision/		1_L A ==
2424859	One Form Per Sample	700 Camino de Salud NE - PC Albuquerque, NM 87196 Phone 505 841 250	- 4700	One Form Per Sample	RC0900040
LAB 09 87 -	41 9: 16 DATE	6 55321 (GWB - remediation su	perfund)	55000 (DWB - SDW.	A - fee-for-service)
USE>>> ONLY	<< <time STAMP</time 	55410 (GWB - pollution preve	ntion)	55420 (DWB - non-	reg. contaminants)
LAB USE - SAMPLE TEMP	PERATURE (deg. C):	C 55910 (SWQ8 - MS)		64000 (Individual c	lient fee-for-service)
SAMPLE PRIORITY: (1, 2,		55920 (SWQB - PSRS)		OTHER (enter 5-dig	it user code)
SUBMITTER CODE (3-digi	it): 541 WSS ID (xxnnnnn	nnn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Basi	n Site Investigation			
FACILITY LOCATION (if n	o WSS complete boxes):	County: McKinley	City:	5tat	e: NM, or change to:
SAMPLING LOCATION:	SMC-	05			
DATE COLLECTED (MM-E	DD-YY): 3/31/	59 BY (First Last) Name:	MARI	4 GARMI	1N
TIME COLLECTED (HH:MI					1:
SAMPLE INFO CONTACT	Phone: 476-377	7 Name if not collector:	David L. Mayer	son	
☐ New / Change Address	for Submitter	Name:			
☐ New/Change Address	for WSS/Client	> Address:	1190 St. Francis I	Dr. N2300	
Send an additional rep	port to	> City:	Santa Fe, NM 87	502	
FIELD DATA (Non-c	thlorinated Chlorinated	d Residual (mg/l): pH:	Conductivity	y (uS/cm): Tem	perature (deg. C):
	emarks:			· · · · · · · · · · · · · · · · · · ·	
DOCUMENTATION	The second secon	Compliance Non-compliand		th facility 💢 Grab sai	mple Composite
SAMPLE Filtered water	er 🌀 Non-filtered water	C Soil/Sediment C Sludge C	Blood (Uri	ine (Tissue (Sai	iva C Swipe/Smear
TYPE Other air/liqu	uid/solid Describe:				
PRESERVATION	100 - 100 -	HCl added to pH < 2 HNO3		H2SO4 added to pH <	2 Asc. acid added
HM ANALYSES LIST	110011000	topinate other beschoe.	lab to acidily		
				<u> </u>	
OR ANALYSES LIST				8	
RC ANALYSES LIST	803 SDWA sequential W	ith Ra-228, 2 gal. (EPA 900.0/90	13.1/904.0, etc.)	2000 - 00000-00	
WC ANALYSES LIST	5 55	<u> </u>		×	107,
ADDITIONAL ANALYSES FOR Field preservati					
LAB	on confirmea Presei	rved to pH > 12 at Lab Prese	rvea to pH < 2 at L	ab Date/Initial: A	pr09 32E
USE Lab Remarks:		The state of the s		0000 8	
	Ple	ase use CHAIN OF CUSTODY FOR	M when requirem	ents mandate	
We, the undersigned, certi		the sample identified on	the container(s) a	and this form by Reques	t ID number
was transferred with evide		Time able box) (Not Present (F	Present & Intact	C Present & Damaged	
Released by:	= = = = = = = = = = = = = = = = = = = =	& Received by:			
	Signature	Additional Transfer If Appli		Signature	
We, the undersigned, certi	fy that onat	the sample identified on	the container(s) a	and this form by Request	ID number
	Date	Time ible box) (Not Present (Pi			
		& Received by:			
	Signature	a neceived by		Signature	
Print Form		Form last modified on 12/2	23/08		Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

May 15, 2009

Request ID No. 2424874 ANALYTICAL REPORT

SLD Accession No. RC-2009-0064

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: NMED GWQ Bureau Abatement and Asse P.O. Box 5469

Santa Fe, NM 87502

Submitter: NMED - Ground Water Pollution Prevention S

P.O. Box 26110

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section **Scientific Laboratory Division** 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

	COLLECTION	S-4(5-10)			LOCATION			
200	09 By: EARLE DIXON	F	acility: S	AN MATEO	O CREEK BASIN SITE INVESTIGATION			
5	In/Near: Milan	Analytical		MC-06	Field Blank		1	
	Analyte	Value		D. Lmt.	<u>Units</u>	Analyst	Method	
6-1	Gross Alpha w/ Am-241 Reference	0.1	0.2	0.5	pCi/L	Crowell	SM 7110 B	
6-1	Gross Alpha w/ U-nat Reference	0.1	0.2	0.5	pCi/L	Crowell	SM 7110 B	
7-2	2 Gross Beta w/ Cs-137 Reference	-0.1	0.5	0.9	pCi/L	Crowell	SM 7110 B	
7-2	2 Gross Beta w/ Sr/Y-90 Reference	-0.1	0.5	1.0	pCi/L	Crowell	SM 7110 B	
0-1	Radium-228, SDWA Method	0.21	0.11	0.16	pCi/L	Ewing	904.0	
7-2	2 Gross Beta w/ Sr/Y-90 Reference	-0.1	0.5	1.0	pCi/L	Cro	well	

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

5/15/2009





Reset Form

Sianature

_ & Received by: ___

Released by: ___

Print Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 13, 2009

Request ID No. 2424875 ANALYTICAL REPORT

SLD Accession No. RC-2009-0065

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson

NMED - Ground Water Pollution Preventio

P.O. Box 5469

Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

GROUND WATER

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

BUREAU

JUL 1 6 2009

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

	COLLECTION			LOCATION						
On: 4/1/2009 By: EARLE DIXON Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION At: 9:55 In/Near: Milan SMC-07										
	An	alytical F	Results	8						
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method			
12587-46-1	Gross Alpha w/ Am-241 Reference	8.2	0.9	0.8	pCi/L	Crowell	SM 7110 B			

CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method
12587-46-1	Gross Alpha w/ Am-241 Reference	8.2	0.9	0.8	pCi/L	Crowell	SM 7110 B
12587-46-1	Gross Alpha w/ U-nat Reference	9.5	1.1	0.9	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Cs-137 Reference	7.0	1.1	1.6	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	6.8	1.1	1.6	pCi/L	Crowell	SM 7110 B
07440-61-1	Uranium, Mass Concentration	2.	0.5	1.0	ug/L	Patel	200.8
13966-29-5	Uranium-234, by Alpha Spec.	4.03	0.12	0.03	pCi/L	Ewing	7500-UC
07440-61-1	Uranium-238, by Alpha Spec.	0.70	0.03	0.02	pCi/L	Ewing	7500-UC
13982-63-3	Radium-226, SDWA Method	1.61	0.07	0.02	pCi/L	Valdez	903.1
15262-20-1	Radium-228, SDWA Method	0.87	0.15	0.16	pCi/L	Ewing	904.0

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQUES	T FORM (INTERACTIV
1000000000000000000000000000000000000		Scientific Laboratory Di 700 Camino de Salud NE - PO			1 - L A # **-
2424875 %	One Form Per Sample	Albuquerque, NM 87196 Phone 505 841 250		One Form Per Sample	
	Part Control C	7		55000 (DWB - SDV	RC0900065
USESSON - 3 Pir 12:	58 << <time< td=""><td></td><td>70</td><td></td><td>-reg. contaminants)</td></time<>		70		-reg. contaminants)
LAB USE - SAMPLE TEMP		55910 (SWQB - MS)			client fee-for-service)
SAMPLE PRIORITY: (1, 2,	1.	55920 (SWQ8 - PSRS)	1	OTHER (enter 5-di	git user code)
SUBMITTER CODE (3-digi		innn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Bas	in Site Investigation		J. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	
FACILITY LOCATION (if n	o WSS complete boxes);	County: McKinley /Cibola	City: Mila	n Sta	nte: NM, or change to: N
SAMPLING LOCATION:	SMC-07		111111		
DATE COLLECTED (MM-D		0 9 BY (First Last) Name	EARL	E DIXON	1
TIME COLLECTED (HH:MM	M24-hr): 0955	Sampler ID #			
SAMPLE INFO CONTACT	Phone: 476-377	77 Name if not collector	David L. Mayer	son	
New / Change Address	for Submitter	·····> Name			
New / Change Address	for WSS / Client	> Address	1190 St. Francis I	Or. N2300	- E E E
	ort to	> City	Santa Fe, NM 87	502	
FIELD DATA (Non-c	hlorinated C Chlorinate	ed Residual (mg/l): pH:	Conductivity	(uS/cm): Ter	mperature (deg. C):
	emarks:				
SAMPLING	NMED monitoring	Compliance Non-complian	ce Split wit	h facility 💢 Grab so	ample Composite
DOCUMENTATION	Finished water 💢 Raw	water Confirmation C	ther Describe:	- pol 49 II	
SAMPLE Filtered water	r (Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ne C Tissue C Sc	aliva C Swipe/Smea
TYPE Other air/liqu	uid/solid Describe:				The state of the s
PRESERVATION None	Shipped at < 4 C	HCl added to pH < 2 HNO.	added to pH < 2	H₂SO₄ added to pH	< 2 Asc. acid added
X Lab t	o acidify 📗 NaOH added	d to pH > 12 Other Describe.	lab to acidify		
HM ANALYSES LIST					
OR ANALYSES LIST		I pakket 1996	THE PERSON		
RC ANALYSES LIST	803 SDWA sequential v	with Ra-228, 2 gal. (EPA 900.0/9	03.1/904.0, etc.)		
WC ANALYSES LIST	T. 24 T	THE PERMIT			
ADDITIONAL ANALYSES		AND THE PERSON NAMED IN	18		
FOR Field preservati	on confirmed Prese	erved to pH > 12 at Lab Prese	erved to pH < 2 at L	ab Date/Initial: 3	Apro9 THE
USE Lab Remarks:				13	- Marie -
	Pl	lease use CHAIN OF CUSTODY FOI	RM when requirem	ents mandate	
We, the undersigned, certi	fy that onat _	the sample identified or	the container(s)	and this form by Reque	st ID number
	Date	Time cable box) (Not Present (
Released by:	Signature	& Received by:		Signature	
	ere ♥ sustantant	Additional Transfer If Appl	icable		
We, the undersigned, certi	A CONTRACTOR OF THE PARTY OF TH	the sample identified or	the container(s) a	and this form by Reque	st ID number
was transferred with evide	Date entiary seal(s) (check applic	Time cable box) (Not Present (P	resent & Intact	Present & Damaged	
Released by:		& Received by:			
	Signature			Sianature	
Print Form		Form last modified on 12/	/23/08		Reset Form

P.O. Box 26110

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

May 29, 2009

Request ID No. 2424860 ANALYTICAL REPORT

SLD Accession No. RC-2009-0041

Distribution

(x) User 55321

(x) Submitter 541

. Client -

(x) SLD Files

Santa Fe, NM 87502

To: NMED - Ground Water Pollution Preventio

User: DAVID L MAYERSON
NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION

On: 3/30/2009 By: DL MAYERSON
At: 12:50 In/Near:

LOCATION

Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
SMC-08

Analytical Results									
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	_ Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	6.7	1.0	0.7	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	8.3	1.3	0.8	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	1.6	0.8	1.2	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	1.5	0.8	1.1	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	9.	0.9	1.0	ug/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.02	0.01	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.89	0.12	0.12	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

reviewed By:

JUN 2009

3 4 5 6

RECEIVED

Midal Jadalja

5/29/2009

NEW MEXICO DEPART	MENT OF HEAL	.TH		HEMISTRY BUREA		NALYTICAL	REQUEST	FORM (INTI	ERACTIVE)
				itific Laboratory Div no de Salud NE - PO				1-6 8	# U
2424860	One Forr Per Sampl		Albuq	uerque, NM 87196	- 4700	One F Per Sa	5111		
LAB	rei Jampi			Phone 505 841 2500 (GWB - remediation su				RC0900 A - fee-for-servi	
USE>\$3 /17.1 - 1 /.		<time< td=""><td></td><td>(GWB - remediation so (GWB - pollution preve</td><td></td><td></td><td></td><td>reg. contamina</td><td>7</td></time<>		(GWB - remediation so (GWB - pollution preve				reg. contamina	7
LAB USE - SAMPLE TEMP			2	(SWQB - MS)				lient fee-for-ser	
		1-		(SWQB - PSRS)			(enter 5-dig		
SAMPLE PRIORITY: (1, 2,				311 QD -1 31(3)		CITIEN	(enter 5 dig		
SUBMITTER CODE (3-dig.		(xxnnnnni			FACILITY ID:	<u> </u>		SITE ID:	
FACILITY / WSS NAME: FACILITY LOCATION (if n	San Mateo Cro				6				
			County: M	cKinley	City:	-	Stat	e: NM, or chang	ge to:
SAMPLING LOCATION:	5MC	-,	, _		5				
DATE COLLECTED (MM-E	D-YY): 03	30/	2009	BY (First Last) Name:	DY NIa	yerso.	7		
TIME COLLECTED (HH:MI	M 24-hr):	250		Sampler ID #	,a 101	ı			1.7
SAMPLE INFO CONTACT	Phone:	176-3777		Name if not collector:	David L. Mayer	son			
New / Change Address	for Submitter		>	Name:					
☐ New / Change Address	for WSS/Client-		>	Address:	1190 St. Francis I	Dr. N2300			7
Send an additional rep	ort to		>	City:	Santa Fe, NM 87	502	Ř		
FIELD DATA (6 Non-c	chlorinated C	nlorinated	Residual (mg/l): pH:	Conductivity	y (uS/cm):	Ten	perature (deg.	C):
	emarks:	Е	노뇨						9
DOCUMENTATION	NMED monitoring Finished water		ompliance vater [(Non-compliant		th facility	⊠ Grab sa	mple 🔽	Composite
SAMPLE Filtered water	er 6 Non-filtere	d water	Soil/Sedi	ment (Sludge (Blood C Uri	ine C Tis:	sue C Sai	liva C Sw	ripe/Smear
TYPE Other air/liq	973	-					20		
10.7% (.5.			HCLadded	to pH < 2 HNO3	added to nH < 2	□ H2SO4@	dded to nH <	2	ncid added
IPRESERVATION				Other Describe:			CBart.		
HM ANALYSES LIST		1.4						******	
OR ANALYSES LIST					W. P. S.				
RC ANALYSES LIST	803 SDWA segu	ential wi	th Ra-228,	2 gal. (EPA 900.0/90	3.1/904.0, etc.)		Telefolis .		1 1 1 1
WC ANALYSES LIST	2 31 -60	LIN.	200			3.	10.00	of Lines	78
ADDITIONAL ANALYSES				V				11	
FOR Field preservati	ion confirmed	Preser	ved to pH > 1	12 at Lab Prese	rved to pH < 2 at L	.ab Date/In	itial: I D	prog J	7=
USE Lab Remarks:	,		1.00		e*/			μ. υ τ σ	
		Plea	ISP USP CHA	N OF CUSTODY FOR	M when requirem	ents mandai	ρ		
We, the undersigned, certi	Date	T	ime	8			1.55	t ID number	
was transferred with evide	entiary seal(s) (chec	k applicat	ble box) C	Not Present (F	Present & Intact	C Present &	& Damaged		
Released by:				& Received by:			-		
	Signatu	ire	Addi	itional Transfer If Appli	cable	3	Signature		
We, the undersigned, certi				sample identified on	the container(s)	and this form	by Reques	t ID number	
was transferred with evide	Date entiary seal(s) (chec	т k applical:	ime ble box)	Not Present Pr	resent & Intact	Present 8	Damaged		
Released by:	1.00			& Received by:					
Print Form	Signatu	ire		1		5	ilanature	Reset I	Form
THILT OILL			Form	last modified on 12/2	23/08			uezer i	OHI

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424861 **ANALYTICAL REPORT**

SLD Accession No. RC-2009-0042

Distribution

(x) User 55321

(x) Submitter 541

. Client -

-2003-0042

To: David Mayerson

NMED GWQ Bureau Abatement and Asse

P.O. Box 5469

Santa Fe, NM 87502

Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

(COLLECTION		LOCATION		
On: 3/30/2009	By: DAVID MAYERSON	Facility:	SAN MATEO CREEK BASIN SITE INVESTIGATION		
At: 15:05	In/Near:		SMC-09		

Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	7.9	1.2	0.8	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	9.7	1.5	1.0	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	7.0	1.2	1.3	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	6.7	1.1	1.2	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	21.	2.1	0.1	ug/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.31	10.0	10.0	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.28	0.07	0.11	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By: _

Midal ladalla

6/10/2000

NEW MEXICO DEPARTME	NT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQUI	ST FORM (INTERACTIVE	
(THE STATE FROM WHICH HERE FROM THE STATE OF THE STATE O	One Form	Scientific Laboratory Div 700 Camino de Salud NE - PC Albuquerque, NM 87196	Box 4700	One Form		
. 2424861	Per Sample	Phone 505 841 2500		Per Sample	RC0900042	
USE>>89 AFR - 1 AFF	DATE	6 55321 (GWB - remediation su	Production (Production Areas Area)	55000 (DWB - SI	OWA - fee-for-service)	
ONLY	STAMP	55410 (GWB - pollution preve	ention)		on-reg. contaminants)	
LABUSE - SAMPLE TEMPERA	ATURE (deg. C):	55910 (SWQB - MS)		64000 (Individue	al client fee-for-service)	
SAMPLE PRIORITY: (1, 2, 3 - c	all Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-	digit user code)	
SUBMITTER CODE (3-digit): 5	41 WSS ID (xxnnnnn	nn):	FACILITY ID:		SITE ID:	
	an Mateo Creek Basi	n Site Investigation				
FACILITY LOCATION (if no WS	SS complete boxes):	County: McKinley	City:	9	itate: NM, or change to:	
SAMPLING LOCATION:	SMC-09					
DATE COLLECTED (MM-DD-Y	Y): 03/30/0	9 BY (First Last) Name:	1 dua	Nbyev.	50-7	
TIME COLLECTED (HH:MM 24-	-hr): 1505	Sampler ID #		2		
SAMPLE INFO CONTACT Pho	ne: 476-377	7 Name if not collector:	David L. Mayer	son		
New / Change Address for S	Submitter	> Name:				
New / Change Address for WSS / Client> Address: 1190 St. Francis Dr. N2300						
Send an additional report t	0	> City:	Santa Fe, NM 87	502	4	
FIELD DATA Non-chlori AND REMARKS Field remai	inated Chlorinated	d Residual (mg/l): pH:	Conductivity	(uS/cm):	Femperature (deg. C):	
SAMPLING NME DOCUMENTATION Finis	ED monitoring Raw	Compliance Non-complianc	her Describe:		N	
SAMPLE Filtered water (TYPE Other air/liquid/s		C Soil/Sediment C Sludge C	Blood (Uri	ne (Tissue (Saliva (Swipe/Smear	
	0.000.	HCl added to pH < 2 HNO3	added to nH < 2	□ H ₂ SO ₄ added to n	H < 7	
PRESERVATION		to pH > 12 Other Describe:		1230144440	n ve j not ded daded	
HM ANALYSES LIST						
OR ANALYSES LIST						
RC ANALYSES LIST 803	SDWA sequential w	ith Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)			
WC ANALYSES LIST	h-		H		-	
ADDITIONAL ANALYSES						
FOR Field preservation co	onfirmed Presei	rved to pH > 12 at Lab Prese	rved to pH < 2 at L	ab Date/Initial:	Apro9 TE	
USE Lab Remarks:						
	Ple	ase use CHAIN OF CUSTODY FOR	M when requirem	ents mandate		
We, the undersigned, certify th		the sample identified on	the container(s)	and this form by Requ	uest ID number	
was transferred with evidentia		able box) (Not Present ()	Present & Intact	C Present & Damag	ed	
Released by:		& Received by:				
	Signature	Additional Transfer If Appli	cable	Signature		
We, the undersigned, certify th		the sample identified on	the container(s)	and this form by Requ	uest ID number	
was transferred with evidentia		ible box) (Not Present (Pr	resent & Intact	Present & Damage	ed :	
Released by:	Signature	& Received by:		Sianature		
Print Form	Signature	Form last modified on 12/	23/08	signature_	Reset Form	

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 26, 2009

Request ID No. 2424862 ANALYTICAL REPORT

SLD Accession No. RC-2009-0043

Distribution

(x) User 55321

(x) Submitter 541

. Client -

(x) SLD Files

To: David Mayerson

NMED - Ground Water Pollution Preventio

P.O. Box 5469

Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

JUL 07 2009

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 3/30/2009 By: DAVID MAYERSON Facility: SAN MATEO CREEK SITE INVESTIGATION
At: 14:32 In/Near: SMC-10

Analytical Results									
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	1.3	0.6	1.3	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	1.6	0.7	1.6	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	4.1	1.1	2.0	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	3.9	1.0	1.9	pCi/L	Crowell	SM 7110 B		
13982-63-3	Radium-226, Total	10.0	0.01	0.01	pCi/L	Valdez	903.1		
5262-20-1	Radium-228, Total	0.36	0.21	0.30	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQU	EST FORM (INTERACTIVE
		Scientific Laboratory Div 700 Camino de Salud NE - PO			Here
2424862	One Form	Albuquerque, NM 87196 -	4700	One Form Per Sample	
A STATE OF THE STA	Per Sample	Phone 505 841 2500		*	_ RC0900043
USE>>> 09 / (7) -	DATE	6 55321 (GWB - remediation su	10	AND STATE OF THE S	DWA - fee-for-service)
ONLY	STAMP	C 55410 (GWB - pollution preven	ntion)	Table 1 and	on-reg. contaminants)
LAB USE - SAMPLE TEMP	ERATURE (deg. C):	55910 (SWQB - MS)			al client fee-for-service)
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)	*	OTHER (enter 5-	digit user code)
SUBMITTER CODE (3-digit	t): 541 WSS ID (xxnnnni	nnn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Basi	in Site Investigation			
FACILITY LOCATION (if no	WSS complete boxes):	County: McKinley	City:		State: NM, or change to:
SAMPLING LOCATION:	SMC-	-10		1	
DATE COLLECTED (MM-D	D-YY): 03/30	09 BY (First Last) Name:	Dav	id May	enson
TIME COLLECTED (HH:MN	124-hr): 14.	32 Sampler ID#		1	
SAMPLE INFO CONTACT	Phone: 476-377	7 Name if not collector:	David L. Mayer:	son	
New / Change Address	for Submitter	> Name:			
New / Change Address	for WSS / Client	> Address:	1190 St. Francis (Dr. N2300	UB_ 72
Send an additional rep	ort to	> City:	Santa Fe, NM 87	502	
FIELD DATA (Non-ca	hlorinated (Chlorinate	d Residual (mg/l): pH:	Conductivity	/ (uS/cm):	Temperature (deg. C):
AND REMARKS Field re	emarks:				148
SAMPLING T	NMED monitoring	Compliance Non-compliance	e Split wit	h facility 💢 Grat	sample Composite
DOCUMENTATION	Finished water 💢 Raw	water Confirmation Oti	her Describe:		
C Filtered wate	-	C Soil/Sediment C Sludge C		ne C Tissue C	Saliva C Swipe/Smear
SAMPLE Filtered wate TYPE Other air/liqu		(sauge (0.000 (0.0	773300 (Junta (Junpa Juncar
		HCI added to pH < 2 HNO3	added to pH < 2	- His Ox added to a	oH < 2
PRESERVATION		to pH > 12 Other Describe:		1 1230100000	775. dela dadea
HM ANALYSES LIST	Tudor Tudaec	other Describe:	lab to acidity		

OR ANALYSES LIST					<u> </u>
l i	803 SDWA sequential w	vith Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)		
WC ANALYSES LIST				A.C.	
ADDITIONAL ANALYSES	IBI				
FOR Field preservation	on confirmed Prese	erved to pH > 12 at Lab Preser	ved to pH < 2 at L	ab Date/Initial:	Apro9 TVE
USE Lab Remarks:		17 40 44			
	Ple	ease use CHAIN OF CUSTODY FOR	M when requirem	ents mandate	A #86-7009
We, the undersigned, certif	y that onat	the sample identified on	the container(s)	and this form by Req	uest ID number
was transferred with evide		Time able box) (Not Present (P	resent & Intact	Present & Damag	ed
Released by:		& Received by:			
increased by.	Signature			Signature	-
202 de 2 de 1931 de sem		Additional Transfer If Applic			12 8
	Date	the sample identified on Time		Control of the Contro	
was transferred with evide		able box) (Not Present (Pr	esent & Intact	Present & Damag	ed
Released by:		& Received by:		- 227-244	
Print Form	Signature	Form last modified on 12/2	3/08	Signature	Reset Form
The second secon		Griff last moullied off 12/2	.5,00		A. J. Charles . Co. of Constitution of the Africa

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424863 ANALYTICAL REPORT

SLD Accession No. RC-2009-0044

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson NMED GWQ Bureau Abatement and Asse P.O. Box 5469 Santa Fe, NM 87502 Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

	OLLECTION		LOCATION				
On: 3/31/2009	By: MARK GARMAN	Facility:	SAN MATEO CREEK BASIN SITE INVESTIGATION				
At: 10:00	In/Near:		SMC-11				

Analytical Results									
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	91.3	7.7	1.4	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	129.5	10.9	2.1	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	90.1	7.8	2.1	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	82.7	7.1	2.0	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	200.	20.	10.	ug/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.16	10.0	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.76	0.12	0.12	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By: ____

Midal Jadalla

6/19/2009

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA		IALYTICAL REQUE	ST FORM (INTE	RACTIVE)
T		Scientific Laboratory Div 700 Camino de Salud NE - PO				**
	One Form	Albuquerque, NM 87196	- 4700			
2424863	Per Sample	Phone 505 841 2500		Per Sample	RC0900	그림생이는 작은 사람들 - 1000
USE 3 1 1 1	9: 16 DATE << <time< td=""><td>€ 55321 (GWB - remediation su</td><td></td><td></td><td>WA - fee-for-servic</td><td>M.</td></time<>	€ 55321 (GWB - remediation su			WA - fee-for-servic	M.
ONLY	STAMP	55410 (GWB - pollution preve	ntion)		n-reg. contaminar	
LAB USE - SAMPLE TEMP	ERATURE (deg. C):	55910 (SWQB - MS)			l client fee-for-serv	rice)
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-a	ligit user code)	
SUBMITTER CODE (3-digit	t): 541 WSS ID (xxnnnnr	nnn):	FACILITY ID:		SITE ID:	
FACILITY / WSS NAME:	San Mateo Creek Basi				*	
FACILITY LOCATION (if no	WSS complete boxes):	County: McKinley	City:	Sı	tate: NM, or chang	e to:
SAMPLING LOCATION:	SMC	-11	AMERICAN PROPERTY.			
DATE COLLECTED (MM-D	D-YY): 3/31/	BY (First Last) Name:	MARI	2 GARN	MAN	- 1
TIME COLLECTED (HH:MM	124-hr): 100	Sampler ID #				
SAMPLE INFO CONTACT	Phone: 476-377	77 Name if not collector:	David L. Mayers	ion		
New / Change Address	for Submitter	> Name:			-00000000	
New / Change Address	for WS5 / Client	> Address:	1190 St. Francis D	or. N2300	10-10-100	
Send an additional rep	ort to	> City:	Santa Fe, NM 875	502		1
FIELD DATA (Non-ci	hlorinated (Chlorinate	ed Residual (mg/l): pH:	Conductivity	(uS/cm): Te	emperature (deg. (C):
REMARKS Field re	marks:					
SAMPLING	NMED monitoring	Compliance Non-compliance	e Split with	h facility 💢 Grab	sample	omposite
DOCUMENTATION _	Finished water 💢 Raw	water Confirmation Ot	her Describe:			
SAMPLE Filtered wate	r 6 Non-filtered water	C Soil/Sediment C Sludge C	Blood C Urit	ne C Tissue C :	Saliva C Swi	pe/Smear
TYPE Other air/light						
•		HCI added to pH < 2 HNO3	added to pH < 2	H₂SO₄ added to pl	H<2 F Asc. ac	cid added
PRESERVATION		d to pH > 12 Other Describe:			1	
HM ANALYSES LIST			PAGE 2007 - 10 TO SERVICE (1997)			
OR ANALYSES LIST	77 - 74 - 72			49-240.7(V),		
RC ANALYSES LIST	803 SDWA seguential w	vith Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)		- NO. 11	
WC ANALYSES LIST						
ADDITIONAL ANALYSES						
FOR Field preservation	on confirmed Prese	erved to pH > 12 at Lab Preser	rved to pH < 2 at Lo	ab Date/Initial: 1	A	TVE
USE Lab Remarks:					Apro9 (100
	Plo	ease use CHAIN OF CUSTODY FOR	M when requirem	ents mandate		
					100 m	
We, the undersigned, certif		the sample identified on	the container(s) a	nd this form by Requ	est ID number	
was transferred with evide	ntiary seal(s) (check applica	able box) (Not Present (P	Present & Intact (Present & Damage	d	
Released by:		& Received by:			0.75	
* == -	Signature	Additional Transfer If Applie		Signature		
D. J. B S 540 NW		***			90 <u>0</u> 0 0	
The control of the co	Date	the sample identified on Time				
was transferred with evide	ntiary seal(s) (check applica	able box) (Not Present (Pr	resent & Intact (Present & Damage	d	
Released by:		& Received by:				
	Signature	22 VAN (1992) N N	545 927	Signature	Daniel D	NUMBER OF STREET
Print Form		Form last modified on 12/2	23/08		Reset F	UIII

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424864 **ANALYTICAL REPORT**

SLD Accession No. RC-2009-0045

Distribution

(x) User 55321

(x) Submitter 541

Client 0-0

(x) SLD Files

To: David Mayerson NMED GWQ Bureau Abatement and Asse P.O. Box 5469 Santa Fe, NM 87502

Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

SLD: Radiochemistry Section **Scientific Laboratory Division** 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

	COLLECTION		LOCATION
On: 3/31/2009	By: MARK GARMAN	Facility:	SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 10:50	In/Near:		SMC-12

Analytical Results							
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method
12587-46-1	Gross Alpha w/ Am-241 Reference	66.8	4.8	1.4	pCi/L	Crowell	SM 7110 B
12587-46-1	Gross Alpha w/ U-nat Reference	82.7	5.9	1.8	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Cs-137 Reference	30.6	3.3	2.0	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	29.5	3.2	1.9	pCi/L	Crowell	SM 7110 B
07440-61-1	Uranium, Mass Concentration	150.	15.	5.0	ug/L	Patel	200.8
13966-29-5	Uranium-234, by Alpha Spec.	54.6	1.65	0.50	pCi/L	Ewing	7500-UC
07440-61-1	Uranium-238, by Alpha Spec.	44.8	1.38	0.25	pCi/L	Ewing	7500-UC
13982-63-3	Radium-226, SDWA Method	0.01	0.01	0.01	pCi/L	Valdez	903.1
15262-20-1	Radium-228, SDWA Method	0.52	0.07	0.12	pCi/L	Ewing	904.0

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.



NEW MEXICO DEPARTM	ENT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQUEST	FORM (INTERACTIVE)
P T THE THE PERSON HAVE THE PERSON HAVE THE		Scientific Laboratory Div 700 Camino de Salud NE - PO			An arrian i lara
2424864	One Form Per Sample	Albuquerque, NM 87196	- 4700	One Form Per Sample	
LAB	DATE	Phone 505 841 2500 55321 (GWB - remediation su		55000 (DWB - SDW)	RC0900045
	9: 16 << <time STAMP</time 	55410 (GWB - pollution preve	II.	55420 (DWB - non-	
LAB USE - SAMPLE TEMPER		C 55910 (SWQB - MS)		64000 (Individual c	
SAMPLE PRIORITY: (1, 2, 3		55920 (SWQB - PSRS)		OTHER (enter 5-dig.	
				(Official Control of Control	
SUBMITTER CODE (3-digit):			FACILITY ID:		SITE ID:
	San Mateo Creek Basi	 			
FACILITY LOCATION (if no l		County: McKinley	City:	Stat	e: NM, or change to:
SAMPLING LOCATION:	SMC-	12			
TIME COLLECTED (HH:MM 2		BY (First Last) Name: 5ampler ID #	MAY	CK GMR	MAN
SAMPLE INFO CONTACT PH	1950			son	
New / Change Address fo	t contract		David E. Mayer	3011	
New / Change Address fo			1190 St. Francis l	Dr N2300	
 			Santa Fe, NM 87		
FIELD DATA Non-chi	orinated (Chlorinate		Conductivity		perature (deg. C):
AND REMARKS Field rem					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
F AII		Compliance Non-compliance	e 🗆 Solit wit	h facility 💢 Grab sa	mple Composite
DOCUMENTATION		water Confirmation Ot		The court of the c	mpre composite
				ina C Tirrus C Sa	liva C Swipe/Smear
SAMPLE Filtered water TYPE Other air/liquid		C Soil/Sediment C Sludge C	B1000 (011	rie (rissue (su	iva (Swipersineal
▼ None	Shipped at < 4 C	HCl added to pH < 2 HNO3	added to pH < 2	☐ H2SO4 added to pH <	2 Asc. acid added
PRESERVATION Lab to a	acidify NaOH added	topH > 12 Other Describe:	lab to acidify		
HM ANALYSES LIST	Har I		*		
OR ANALYSES LIST		10.			
RC ANALYSES LIST 80	03 SDWA sequential w	rith Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)	197	
WC ANALYSES LIST				100	
ADDITIONAL ANALYSES					
FOR Field preservation	confirmed Prese	erved to pH > 12 at Lab Prese	rved to pH < 2 at L	ab Date/Initial: 1A	pro9 THE
USE Lab Remarks:					
	Ple	ease use CHAIN OF CUSTODY FOR	M when requirem	ents mandate	
We, the undersigned, certify		the sample identified on	the container(s)	and this form by Reques	t ID number
was transferred with evident	Date tiary seal(s) (check applica	Time able box) \(\text{Not Present} \(\text{I} \)	Present & Intact	C Present & Damaged	
Released by:		& Received by:			
	Signature	Additional Transfer If Appli	cable	Signature	
We, the undersigned, certify		the sample identified on	the container(s)	and this form by Reques	t ID number
was transferred with evident	Date tiary seal(s) (check applica	Time able box) (Not Present (Pi	resent & Intact	C Present & Damaged	
Released by:		& Received by:			
	Sianature		2 4	Signature	Elegan D. Land Company
Print Form		Form last modified on 12/	23/08		Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 20, 2009

Request ID No. 2424901 ANALYTICAL REPORT

SLD Accession No. RC-2009-0059

Distribution

(x) User 55321

(x) Submitter 541

.Client 0-0

(x) SLD Files

To: David Mayerson

NMED - Ground Water Pollution Preventio

P.O. Box 5469

Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

JUL 2 4 2009

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

		IN COUNTRIE BATA	
	COLLECTION	LOCATION	
On: 4/2/2009	By: DAVID L MAYERSON	Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION	
At: 13:05	In/Near:	SMC-13	

	Analytical Results								
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	121.0	7.7	1.9	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	154.1	9.8	2.4	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	87.5	6.4	3.0	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	83.0	6.1	2.8	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	220.	22.	10.	ug/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.07	0.01	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.28	0.13	0.16	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

7/20/2009

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA Scientific Laboratory Div		NALYTICAL REQUE	ST FORM (INTERACTIVE)
THE REAL PROPERTY AND ARREST AND ARREST	One Form	700 Camino de Salud NE - PO	Box 4700	One Form	Lab Accession # U
2424901	Per Sample	Albuquerque, NM 87196 - Phone 505 841 2500		Per Sample	
ILAB	DATE DATE	€ 55321 (GWB - remediation su	perfund)	C 55000 (DWB - SL	RC0900059
USE>>09 And -3 Fr	12:58 << <time stamp<="" td=""><td>55410 (GWB - pollution preve</td><td>ntion)</td><td>55420 (DWB - no</td><td>n-reg. contaminants)</td></time>	55410 (GWB - pollution preve	ntion)	55420 (DWB - no	n-reg. contaminants)
LAB USE - SAMPLE TEMP	ERATURE (deg. C): 13	55910 (SWQB - MS)		C 64000 (Individua	l client fee-for-service)
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-c	ligit user code)
SUBMITTER CODE (3-digit	t): 541 WSS ID (xxnnnni	nnn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Basi	in Site Investigation			
FACILITY LOCATION (if no	WSS complete boxes):	County: McKinley	City:	Sı	tate: NM, or change to:
SAMPLING LOCATION:	SMC	1-13	, , , , , , , , , , , , , , , , , , , 		
DATE COLLECTED (MM-D	D-YY): 4/2/0	7 BY (First Last) Name:	1)avia	L. Nay	exer
TIME COLLECTED (HH:MN	124-hr): 1305	Sampler ID #			
SAMPLE INFO CONTACT	Phone: 476-377	7 Name if not collector:	David L. Mayer	son	
☐ New / Change Address	for Submitter	> Name:			
☐ New/Change Address	for WSS/Client	> Address:	1190 St. Francis (Dr. N2300	
Send an additional rep	ort to	> City:	Santa Fe, NM 87	502	
FIELD DATA (Non-ci	hlorinated (Chlorinate	d Residual (mg/l): pH:	Conductivity	v (uS/cm): Te	emperature (deg. C):
REMARKS Field re	marks:	(
DOCUMENTATION	Finished water 💢 Raw	Compliance Non-complianc	her Describe:	h facility 💢 Grab	
	Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ne C Tissue C	Saliva (Swipe/Smear
TYPE Other air/liqu	id/solid Describe:				
PRESERVATION	,	HCl added to pH < 2 HNO3 to pH > 12 Other Describe:		H2SO4 added to ph	d < 2 Asc. acid added
HM ANALYSES LIST	7	<u>. </u>			
OR ANALYSES LIST		n Ar Thair			
RC ANALYSES LIST	RO3 SDWA sequential w	rith Ra-228, 2 gal. (EPA 900.0/90	3 1/904 0 etc)		
WC ANALYSES LIST	ooo oo maadaanaa w	111118 220,2 gai. (21 11 700.0,70	3.17 20-1.0, etc.,		
ADDITIONAL ANALYSES	*				Ø = 0 = E
FOR Field preservation	on confirmed	rved to pH > 12 at Lab Preser	ved to pH < 2 at L	ab Date/Initial:	10.00 D.E
USE Lab Remarks:				D COLONIALON D	Aproq TLE
USE EGO MEMO/AS.	Die	ease use CHAIN OF CUSTODY FOR	M when requirem	onte mandata	
We, the undersigned, certif	y that onat	the sample identified on	en er i de la companya		est ID number
was transferred with evider		Time able box) (Not Present (P	resent & Intact	Present & Damage	d
Released by:		& Received by:			i
mercased by.	Signature	Additional Transfer If Applic	able	Signature	
We, the undersigned, certify	y that onat	the sample identified on 1	the container(s) a	and this form by Requi	est ID number
	Date	Time able box) (Not Present (Pr			
Released by:		& Received by:			
	Signature			Signature	
Print Form		Form last modified on 12/2	23/08		Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424882

ANALYTICAL REPORT SLD Accession No. RC-2009-0055

Distribution

(x) User 55321 (x) Submitter 541

. Client 0-0

(x) SLD Files

To: NMED GWQ Bureau Abatement and Asse P.O. Box 5469

Santa Fe, NM 87502

Submitter: NMED - Ground Water Pollution Prevention S

P.O. Box 26110

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

	COLLECTION		LOCATION
On: 4/2/2009	By: DAVID L MAYERSON	Facility:	SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 10:30	In/Near:		SMC-14

	An	alytical F	Results	}			
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method
12587-46-1	Gross Alpha w/ Am-241 Reference	14.0	1.4	1.3	pCi/L	Crowell	SM 7110 B
12587-46-1	Gross Alpha w/ U-nat Reference	17.2	1.7	1.7	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Cs-137 Reference	10,1	1.4	2.0	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	9.7	1.3	2.0	pCi/L	Crowell	SM 7110 B
07440-61-1	Uranium, Mass Concentration	21.	2.1	1.0	ug/L	Patel	200.8
13982-63-3	Radium-226, SDWA Method	-0.01	0.01	0.01	pCi/L	Valdez	903.1
15262-20-1	Radium-228, SDWA Method	0.45	0.11	0.15	pCi/L	Ewing	904.0
15262-20-1	Radium-228, SDWA Method	0.45	0.11	0.15	pCi/L	Ewing	904.0

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

RECEIVED JUN 2009

Reviewed By:

Nidal Jadalla

6/19/2009

CHEMISTRY BUREAU ANALYTICAL REQUEST FORM (INTERACTIVE) NEW MEXICO DEPARTMENT OF HEALTH Scientific Laboratory Division I ah Arressian # He 700 Camino de Salud NE - PO Box 4700 One Form One Form Albuquerque, NM 87196 - 4700 2424882 Per Sample Per Sample Phone 505 841 2500 S5000 (DWB - SDWA - tee-tor-service) LAB DATE 6 55321 (GWB - remediation superfund) USE>>>00 // -3 14/12: 58 C 55410 (GWB - pollution prevention) C 55420 (DWB - non-reg. contaminants) STAMP 64000 (Individual client fee-for-service) LAB USE - SAMPLE TEMPERATURE (deg. C): C 55910 (SWQB - MS) 55920 (SWQB - PSRS) C OTHER (enter 5-digit user code) SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) **FACILITY ID:** SITE ID: SUBMITTER CODE (3-digit): 541 WSS ID (xxnnnnnnnn): **FACILITY / WSS NAME:** San Mateo Creek Basin Site Investigation FACILITY LOCATION (if no WSS complete boxes): County: McKinley City: State: NM, or change to: SAMPLING LOCATION: BY (First Last) Name: DATE COLLECTED (MM-DD-YY): ayerron TIME COLLECTED (HH:MM 24-hr): Sampler ID # SAMPLE INFO CONTACT Phone: 476-3777 Name if not collector: David L. Mayerson New / Change Address for Submitter ----> Name: New/Change Address for WSS/Client -----Address: 1190 St. Francis Dr. N2300 Send an additional report to -----> City: Santa Fe, NM 87502 FIELD DATA (Non-chlorinated Chlorinated Residual (mg/l): Conductivity (uS/cm): Temperature (deg. C): AND REMARKS Field remarks: □ NMED monitorina Compliance Non-compliance Split with facility ▼ Grab sample Composite SAMPLING DOCUMENTATION Finished water Raw water Confirmation Other Describe: SAMPLE Filtered water Non-filtered water Soil/Sediment Sludge Blood Urine Tissue Saliva Swipe/Smear C Other air/liquid/solid Describe: None Shipped at < 4 C HCl added to pH < 2 HNO₃ added to pH < 2 H≥SO₄ added to pH < 2 Asc. acid added \[
 \overline{\text{Lab to acidify}} \]
 \[
 \overline{\text{NaOH added to pH > 12}} \]
 \[
 \overline{\text{Other Describe: lab to acidify}}
 \] HM ANALYSES LIST OR ANALYSES LIST RC ANALYSES LIST 803 SDWA sequential with Ra-228, 2 gal. (EPA 900.0/903.1/904.0, etc.) WC ANALYSES LIST ADDITIONAL ANALYSES Field preservation confirmed Preserved to pH > 12 at Lab Preserved to pH < 2 at Lab Date/Initial: BADTO9 THE LAB USE Lab Remarks: Please use CHAIN OF CUSTODY FORM when requirements mandate _ the sample identified on the container(s) and this form by Request ID number ___ We, the undersigned, certify that on _ Time was transferred with evidentiary seal(s) (check applicable box) (Not Present @ Present @ Intact (Present & Damaged Released by: ____ __& Received by: ___ Additional Transfer If Applicable ___ the sample identified on the container(s) and this form by Request ID number ___ We, the undersigned, certify that on _ Date was transferred with evidentiary seal(s) (check applicable box) (Not Present & Present & Intact (Present & Damaged Released by: __ __ & Received by: __ Sianature Signature

Form last modified on 12/23/08

Reset Form

Print Form

P.O. Box 4700 Albuquerque, NM 87196

700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 6, 2009

Request ID No. 2424876

ANALYTICAL REPORT

SLD Accession No. RC-2009-0067

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson

NMED - Ground Water Pollution Preventio

P.O. Box 5469

COLLECTION

Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

LOCATION

DEMOGRAPHIC DATA

On: 4/1/2009 At: 11:25									
Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	<u>Analyst</u>	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	0.9	0.6	1.3	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	1.1	0.8	1.7	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	4.8	0.9	1.4	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	4.6	0.9	1.4	pCi/L	Crowell	SM 7110 B		
13982-63-3	Radium-226, SDWA Method	0.28	0.02	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.44	0.11	0.15	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

7/6/2009

SIMC - 16 NEW MEXICO DEPARTMENT OF HEALTH ANALYTICAL REQUEST FORM (INTERACTIVE) **CHEMISTRY BUREAU** Scientific Laboratory Division I ah Acression # He 700 Camino de Salud NE - PO Box 4700 SINC One Form One Form Albuquerque, NM 87196 - 4700 6 Per Sample Phone 505 841 2500 Per Sample 55000 (DWB - SDwa - IEE-IUI - SEIVICE) DATE 6 55321 (GWB - remediation superfund) USE>> 09 Al 11 - 3 1/11/2: 58 CCCTIME 55410 (GWB - pollution prevention) 55420 (DWB - non-reg. contaminants) ONLY 64000 (Individual client fee-for-service) LAB USE - SAMPLE TEMPERATURE (deg. C): C 55910 (SWQB-MS) 55920 (SWQB - PSRS) OTHER (enter 5-digit user code) SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3 SUBMITTER CODE (3-digit): 541 WSS ID (xxnnnnnnn): **FACILITY ID:** SITE ID: FACILITY / WSS NAME: San Mateo Creek Basin Site Investigation FACILITY LOCATION (if no WSS complete boxes): County: McKinley /Cibola State: NM, or change to: NM Milan SAMPLING LOCATION: SMC-16 DATE COLLECTED (MM-DD-YY): EARLE DIXON 04/01/09 BY (First Last) Name: TIME COLLECTED (HH:MM 24-hr): Sampler ID # 1125 SAMPLE INFO CONTACT Phone: 476-3777 Name if not collector: David L. Mayerson New / Change Address for Submitter -----> Name: New/Change Address for WS5/Client -----> Address: 1190 St. Francis Dr. N2300 Send an additional report to -----> City: Santa Fe, NM 87502 FIELD DATA (Non-chlorinated Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C): AND Field remarks: REMARKS Composite Composite SAMPLING DOCUMENTATION Finished water Raw water Confirmation Other Describe: SAMPLE (Filtered water 6 Non-filtered water (Soil/Sediment (Sludge (Blood (Urine (Tissue (Saliva C Swipe/Smear C Other air/liquid/solid Describe: None Shipped at < 4 C HCl added to pH < 2 HNO3 added to pH < 2 HzSO4 added to pH < 2 Asc. acid added \[
 \overline{\text{Lab to acidify}} \]
 \[
 \overline{\text{NaOH added to pH} > 12} \]
 \[
 \overline{\text{Other Describe: lab to acidify}}
 \] HM ANALYSES LIST OR ANALYSES LIST RC ANALYSES LIST 803 SDWA sequential with Ra-228, 2 gal. (EPA 900.0/903.1/904.0, etc.) WC ANALYSES LIST ADDITIONAL ANALYSES FOR Field preservation confirmed Preserved to pH > 12 at Lab Preserved to pH < 2 at Lab Date/Initial: LAB USE Lab Remarks: Please use CHAIN OF CUSTODY FORM when requirements mandate We, the undersigned, certify that on ___ __ the sample identified on the container(s) and this form by Request ID number _ Time Date was transferred with evidentiary seal(s) (check applicable box) (Not Present @ Present @ Intact (Present & Damaged Released by: ___ _& Received by: ___ Sianature Additional Transfer If Applicable We, the undersigned, certify that on ___ _ the sample identified on the container(s) and this form by Request ID number _ Date was transferred with evidentiary seal(s) (check applicable box) (Not Present & Present & Intact (Present & Damaged Released by: ___ & Received by: Sianature Sianature

Form last modified on 12/23/08

Reset Form

Print Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 13, 2009

Request ID No. 2424877 ANALYTICAL REPORT
SLD Accession No. RC-2009-0060

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson
NMED - Ground Water Pollution Preventio
P.O. Box 5469
Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

GROUND WATER

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

BUREAU

JUL 1 6 2009

DEMOGRAPHIC DATA

COLLECTION

On: 4/1/2009 By: EARLE DIXON
At: 10:12 In/Near: Milan

DEMOGRATIO DATA

LOCATION

Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
SMC-17

Series And	Analytical Results							
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method	
12587-46-1	Gross Alpha w/ Am-241 Reference	58.8	4.0	1.2	pCi/L	Crowell	SM 7110 B	
12587-46-1	Gross Alpha w/ U-nat Reference	69.4	4.7	1.4	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Cs-137 Reference	34.2	3.4	2.2	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	33.3	3.4	2.1	pCi/L	Crowell	SM 7110 B	
07440-61-1	Uranium, Mass Concentration	85	8.5	4.0	ug/L	Patel	200.8	
13966-29-5	Uranium-234, by Alpha Spec.	44.9	1.24	0.14	pCi/L	Ewing	7500-UC	
07440-61-1	Uranium-238, by Alpha Spec.	27.1	0.79	0.09	pCi/L	Ewing	7500-UC	
13982-63-3	Radium-226, SDWA Method	0.14	0.01	0.01	pCi/L	Valdez	903.1	
15262-20-1	Radium-228, SDWA Method	0.46	0.15	0.15	pCi/L	Ewing	904.0	

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.

Nidal's cignature on back; signed 7/13/2009.

*>in/C = 1 /				
NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA Scientific Laboratory Div		NALYTICAL REQUEST FORM (INTERACTIVE
THE STANDARD CONTRACTOR STANDARD STANDA	One Form	700 Camino de Salud NE - PC	Box 4700	One Form International Interna
	Mc One Form 17 Per Sample	Albuquerque, NM 87196 Phone 505 841 250		Per Sample
LAB	DATE	€ 55321 (GWB - remediation su	5.	S5000 (DWB - SDWA - tee-tor-service)
USE>>80 A 3 1	11 12: 58 << <time stamp<="" td=""><td>C 55410 (GWB - pollution preve</td><td>•</td><td>55420 (DWB - non-reg. contaminants)</td></time>	C 55410 (GWB - pollution preve	•	55420 (DWB - non-reg. contaminants)
LAB USE - SAMPLE TEM	PERATURE (deg. C):	55910 (SWQB - MS)		64000 (Individual client fee-for-service)
SAMPLE PRIORITY: (1, 2,	3-call Lab if 1 or 2) 3	55920 (SWQB - PSRS)	į	OTHER (enter 5-digit user code)
SUBMITTER CODE (3-dig	it): 541 WSS ID (xxnnnn	nnn):	FACILITY ID:	SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Bas	in Site Investigation	P w Wa	
FACILITY LOCATION (if n	o WSS complete boxes):	County McKinley Cibola	City: Mil	an State: NM, or change to: NM
SAMPLING LOCATION:	SMC-	17		-
DATE COLLECTED (MM-E	DO-YY): 04/01/	09 BY (First Last) Name:	EARI	E DIXON
TIME COLLECTED (HH:MI	M24-hr): 1012	Sampler ID #		
SAMPLE INFO CONTACT	Phone: 476-377	7 Name if not collector:	David L. Mayer	son
New / Change Address	for Submitter	> Name:		
New/Change Address	for WSS/Client	> Address:	1190 St. Francis I	Dr. N2300
Send an additional rep	oort to	> City:	Santa Fe, NM 87	502
FIELD DATA (Non-c	thlorinated C Chlorinate	d Residual (mg/l): pH:	Conductivity	(uS/cm): Temperature (deg. C):
AND	emarks:		700 St 20724'S A.	5 CONTROL 10 - 40 - 10 - 10 - 10 - 10 - 10 - 10 -
DOCUMENTATION	Finished water 💢 Raw	Compliance Non-compliance water Confirmation Ot Soil/Sediment Sludge C	her Describe:	
SAMPLE Filtered water TYPE Other air/liq		(Sourseament (Sludge (81000 (011	ne (Tissue (Suilva (Swipe-sinear
		- UCLadded to pU c 2 F UNO	added to pH < 2	☐ H25O4 added to pH < 2 ☐ Asc. acid added
IPRESERVATION	THE CO. I. S. C.	to pH > 12 \ Other Describe:	2	H2504 dadded to pH < 2 Asc. acid dadded
HM ANALYSES LIST				
OR ANALYSES LIST				
RC ANALYSES LIST	803 SDWA sequential w	vith Ra-228, 2 gal. (EPA 900.0/90	13.1/904.0. etc.)	
WC ANALYSES LIST		300,000,000		
ADDITIONAL ANALYSES				
FOR Field preservati	on confirmed	erved to pH > 12 at Lab Prese	rved to pH < 2 at I	ab Date/Initial: 2.0
USE Lab Remarks:		1		ab Date/Initial: 3 Apro9 TE
USE Zuo nemura.	ni.	ease use CHAIN OF CUSTODY FOR	Mushan	onte mandata
	Fle	ease ase CHAIN OF COSTODT FOR	im when requirem	ents manuale
We, the undersigned, certi		the sample identified on	the container(s)	and this form by Request ID number
was transferred with evide		able box) (Not Present (F	Present & Intact	Present & Damaged
Released by:		& Received by:		
	Signature	Additional Transfer If Applie	cable	Signature
We, the undersigned, certi	fy that onat	the sample identified on	the container(s)	and this form by Request ID number
	Date	Time able box) (Not Present (Pr		25: 7:
Released by:		& Received by:		
71	Signature	uccerred by		Signature
Print Form		Form last modified on 12/2	23/08	Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

August 12, 2009

Request ID No. 2424878 ANALYTICAL REPORT

SLD Accession No. RC-2009-0062

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: Earl Dixon
NMED GWQ Bu

NMED GWQ Bureau Abatement and Asse P.O. Box 5469

Santa Fe, NM 87502

Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 5469

Santa Fe, NM 87502

GROUND WATER

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

BUREAU

AUG 1 7 2009

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 4/1/2009 By: EARLE DIXON Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 11:55 In/Near: Milan SMC-18

Analytical Results								
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method	
12587-46-1	Gross Alpha w/ Am-241 Reference	10.9	1.2	1.0	pCi/L	Crowell	SM 7110 B	
12587-46-1	Gross Alpha w/ U-nat Reference	13.2	1.5	1.2	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Cs-137 Reference	15.2	1.6	1.6	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	14.6	1.6	1.6	pCi/L	Crowell	SM 7110 B	
07440-61-1	Uranium, Mass Concentration	2.	0.5	1.0	ug/L	Patel	200.8	
13966-29-5	Uranium-234, by Alpha Spec.	3.73	0.11	0.04	pCi/L	Ewing	7500-UC	
07440-61-1	Uranium-238, by Alpha Spec.	0.52	0.03	0.03	pCi/L	Ewing	7500-UC	
13982-63-3	Radium-226, Total	1.35	0.05	0.01	pCi/L	Valdez	903.1	
15262-20-1	Radium-228, Total	0.83	0.14	0.16	pCi/L	Ewing	904.0	

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.

Nidal's signature on back; signed 8/12/2009.

SMC-10 NEW MEXICO DEPARTMENT OF HEALTH ANALYTICAL REQUEST FORM (INTERACTIVE) **CHEMISTRY BUREAU** Scientific Laboratory Division Lab Accession # LI-700 Camino de Salud NE - PO Box 4700 I HER THE PROCESS TO STREET STREET STREET Per Sample One Form Albuquerque, NM 87196 - 4700 Per Sample Phone 505 841 2500 C 55000 (DWB-SL RC0900062 LAB DATE 6 55321 (GWB - remediation superfund) USE>>>09 471. - 3 F1112: 58 <<<TIME 55420 (DWB - non-reg. contaminants) C 55410 (GWB - pollution prevention) LAB USE - SAMPLE TEMPERATURE (deg. C): C 55910 (SWQB - MS) 64000 (Individual client fee-for-service) 55920 (SWQB - PSRS) OTHER (enter 5-digit user code) SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3 SUBMITTER CODE (3-digit): 541 WSS ID (xxnnnnnnn): **FACILITY ID:** SITE ID: FACILITY / WSS NAME: San Mateo Creek Basin Site Investigation FACILITY LOCATION (if no WSS complete boxes): County: McKinley /Cibola State: NM, or change to: NM Milan SAMPLING LOCATION: SMC - 18 DATE COLLECTED (MM-DD-YY): BY (First Last) Name: EARLE DIXON 04/01/09 1155 TIME COLLECTED (HH:MM 24-hr): Sampler ID # Name if not collector: David L. Mayerson SAMPLE INFO CONTACT Phone: 476-3777 New / Change Address for Submitter -----> Name: New/Change Address for WSS/Client -----> Address: 1190 St. Francis Dr. N2300 Send an additional report to -----> City: Santa Fe, NM 87502 FIELD DATA Non-chlorinated Chlorinated Residual (mg/l): Conductivity (uS/cm): Temperature (deg. C): AND Field remarks: REMARKS NMED monitoring Compliance Non-compliance Split with facility Grab sample Composite SAMPLING DOCUMENTATION Finished water Raw water Confirmation Other Describe SAMPLE (Filtered water @ Non-filtered water (Soil/Sediment (Sludge (Blood (Urine (Tissue (Saliva Swipe/Smear Other air/liquid/solid Describe: \nearrow None \nearrow Shipped at < 4 C $\ \square$ HCl added to pH < 2 $\ \square$ HNO3 added to pH < 2 $\ \square$ HzSO4 added to pH < 2 $\ \square$ Asc. acid added HM ANALYSES LIST OR ANALYSES LIST RC ANALYSES LIST 803 SDWA sequential with Ra-228, 2 gal. (EPA 900.0/903.1/904.0, etc.) WC ANALYSES LIST ADDITIONAL ANALYSES FOR Field preservation confirmed Preserved to pH > 12 at Lab Preserved to pH < 2 at Lab Date/Initial: LAB USE Lab Remarks: Please use CHAIN OF CUSTODY FORM when requirements mandate _ the sample identified on the container(s) and this form by Request ID number _ We, the undersigned, certify that on _ Time Date was transferred with evidentiary seal(s) (check applicable box) (Not Present @ Present @ Intact (Present & Damaged Released by: ___ _& Received by: ___ Signature Additional Transfer If Applicable We, the undersigned, certify that on ___ __ the sample identified on the container(s) and this form by Request ID number __ Date was transferred with evidentiary seal(s) (check applicable box) (Not Present @ Present & Intact (Present & Damaged Released by: ___ _ & Received by: Sianature Signature Print Form Reset Form Form last modified on 12/23/08

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE **[505]-841-2500**

RADIOCHEMISTRY SECTION [505]-841-2574

May 29, 2009

Request ID No. 2424865

ANALYTICAL REPORT SLD Accession No. RC-2009-0046 Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: NMED - Ground Water Pollution Preventio

P.O. Box 26110

Santa Fe, NM 87502

User: DAVID L MAYERSON

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION On: 3/31/2009 By: MARK GARMAN Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION In/Near: **SMC-20** At: 9:50

Analytical Results							
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method
12587-46-1	Gross Alpha w/ Am-241 Reference	46.6	3.6	1.0	pCi/L	Crowell	SM 7110 B
12587-46-1	Gross Alpha w/ U-nat Reference	53.4	4.2	1.1	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Cs-137 Reference	20.9	2.8	1.4	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	20.6	2.8	1.4	pCi/L	Crowell	SM 7110 B
07440-61-1	Uranium, Mass Concentration	58.	5.8	2.0	ug/L	Patel	200.8
13982-63-3	Radium-226, SDWA Method	0.96	0.04	0.01	pCi/L	Valdez	903.1
15262-20-1	Radium-228, SDWA Method	1.87	0.23	0.12	pCi/L	Ewing	904.0

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

> Reviewed By: RECEIVED JUN 2009

5/29/2009

NEW MEXICO DEPART	MENT OF HEALTH One Form Per Sample		CHEMISTRY BUREA Scientific Laboratory Div O Camino de Salud NE - PC Albuquerque, NM 87196 Phone 505 841 250	vision) Box 4700 - 4700	One Form Per Sample		# Here	
LAB		ATE 6	55321 (GWB - remediation su			RC0900	U46	
USE>>>9 FFT - 1 H		IME L	55410 (GWB - pollution preve	÷	Weeks on the second control of the second co	n-reg. contaminan		
LAB USE - SAMPLE TEMP			55910 (SWQB - MS)			l client fee-for-serv		
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3		55920 (SWQB - PSRS)		OTHER (enter 5-a	ligit user code)		
SUBMITTER CODE (3-digi	t): 541 WSS ID (xx	nnnnnnn):		FACILITY ID:		SITE ID:		
FACILITY / WSS NAME:	San Mateo Creek	Basin Si	te Investigation					
FACILITY LOCATION (if n	o WSS complete boxes): Co	ounty: McKinley	City:	Si	tate: NM, or change	e to:	
SAMPLING LOCATION:	SMC	7	20					
DATE COLLECTED (MM-E	2/3	31/05		126 464	K GARM	IAN	Ī	
TIME COLLECTED (HH:MM	124-hr):	950	Sampler ID #				- 4	
SAMPLE INFO CONTACT	1	5-3777	Name if not collector:	David L. Mayer	son			
New / Change Address	for Submitter		> Name:				₩	
New/Change Address	for WSS / Client		> Address:	1190 St. Francis	Dr. N2300			
Send an additional rep			34174	Santa Fe, NM 87	502			
AND	hlorinated Chlor emarks:	inated R	esidual (mg/l): pH:	Conductivit	y (uS/cm); Te	emperature (deg. C	D: -	
SAMPLING	NMED monitoring Finished water	Com	pliance Non-compliance Confirmation Ot		th facility 🔀 Grab	sample Γ Co	omposite	
SAMPLE Filtered water TYPE Other air/lique			Soil/Sediment (Sludge (Blood C Ur	ine (Tissue (S	Saliva (Swi _l	pe/Smear	
PRESERVATION		37.00	Cladded to pH < 2 HNO3 H > 12 Chher Describe:	X-22 - 22 - 22 X	⊢ H₂SO₄ added to pH	1<2	id added	
HM ANALYSES LIST							- 11	
OR ANALYSES LIST			MIX - IN THE					
RC ANALYSES LIST	803 SDWA sequent	ial with f	Ra-228, 2 gal. (EPA 900.0/90	03.1/904.0. etc.)				
WC ANALYSES LIST								
ADDITIONAL ANALYSES	-i				T 1			
FOR Field preservati	on confirmed	Preserved	to pH > 12 at Lab Prese	rved to pH < 2 at L	ab Date/Initial:	Aproade	E	
USE Lab Remarks:	<u>', </u>		<i>y</i> -	er stiller little energie in beliefe bill		ripru 7 70		
		Please	use CHAIN OF CUSTODY FOR	IM when requirem	nents mandate			
We, the undersigned, certi			the sample identified on	the container(s)	and this form by Requ	est ID number		
was transferred with evide	Date ntiary seal(s) (check a	Time pplicable b	box) (Not Present (F	Present & Intact	C Present & Damage	d		
Released by:			& Received by:					
nereased by.	Signature		Additional Transfer If Appli		Signature	*****		
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number								
	Date	Time						
Released by:			& Received by:					
	Signature		•	***	Signature			
Print Form			Form last modified on 12/2	23/08		Reset Fo	orm	

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424866 ANALYTICAL REPORT
SLD Accession No. RC-2009-0047

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson

NMED GWQ Bureau Abatement and Asse

P.O. Box 5469

COLLECTION

Santa Fe, NM 87502

Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

LOCATION

DEMOGRAPHIC DATA

On: 3/31/2009 At: 11:15	By: MARK GARMAN In/Near:	Fac	100000000000000000000000000000000000000	AN MATEO MC-21	CREEK BAS	IN SITE INVESTIG	GATION		
Analytical Results									
CAS No.	Analyte	Value	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	6.5	1.0	1.4	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	9.1	1.5	2.0	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	8.1	1.3	2.2	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	7.5	1.3	2.0	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	10.	1.0	1.0	ug/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.27	0.02	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	2.40	0.33	0.50	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Midal Jadalla

6/19/2009

NEW MEXICO DEPARTMENT OF	HEALTH	CHEMISTRY		ANALYTICAL REC	QUEST FORM (INTERACTI		
THE STATE OF THE S		Scientific Labora 700 Camino de Salud			I ah Arression # He		
One	e Form	Albuquerque, NA	A 87196 - 4700	One Form	E EN DE LOUIS DE LA SELL DE 14 DE 1911 E NOVEL DE 1919 DE LOUIS DE 1918 DE LOUIS DE 1918 DE LOUIS DE 1918 DE L		
AND	Sample	Phone 505		Per Sampl	P-		
USE \$ 1 - 1 1 9: 16	<< <time< td=""><td>€ 55321 (GWB - remed</td><td></td><td></td><td>RC090047</td></time<>	€ 55321 (GWB - remed			RC090047		
ONLY		55410 (GWB - pollut	70		- non-reg. contaminants)		
LAB USE - SAMPLE TEMPERATURE (10	55910 (SWQB - MS)			ridual client fee-for-service)		
SAMPLE PRIORITY: (1, 2, 3 - call Lab i	f1 or 2) 3	55920 (SWQ8 - PSRS	5)	OTHER (ente	er 5-digit user code)		
SUBMITTER CODE (3-digit): 541	NSS ID (xxnnnnn	nn):	FACILITY ID	:	SITE ID:		
		Site Investigation		, page	-		
FACILITY LOCATION (if no WSS comp	lete boxes):	County: McKinley	City:		State: NM, or change to:		
SAMPLING LOCATION:	SMC.	-21					
DATE COLLECTED (MM-DD-YY):	3/31/	OS BY (First La	st) Name: MA	RK GAR	MAN		
TIME COLLECTED (HH:MM 24-hr):	1115	San	npler ID #				
SAMPLE INFO CONTACT Phone:	476-3777	Name if not	collector: David L. Ma	yerson			
New / Change Address for Submitte	er	>	Name:				
New/Change Address for WSS/Ci	lient	>	Address: 1190 St. Fran	cis Dr. N2300			
Send an additional report to		>	City: Santa Fe, NM	87502			
FIELD DATA (Non-chlorinated	Chlorinated	Residual (mg/l):	pH: Conduct	rivity (uS/cm):	Temperature (deg. C):		
AND REMARKS Field remarks:							
SAMPLING NMED moni	itorina 🗀 (Compliance Non-c	compliance Split	with facility 😿 🤆	Grab sample Composi		
DOCUMENTATION Finished wa		vater Confirmation			1 00111702		
			,	1			
SAMPLE Filtered water Non	-filtered water	C Soil/Sediment C S	ludge (* Blood (*	Urine (Tissue	C Saliva C Swipe/Sme		
(Other dir/riquiu/solid	Describe:	real Hill	Mainta de	100			
PRESERVATION None Ship	pedat<4C	HCl added to pH < 2	☐ HNO₃ added to pH <	H2SO4 added	to pH < 2 Asc. acid adde		
▼ Lab to acidify	NaOH added	to pH > 12 Other	Describe: lab to acidif	у			
HM ANALYSES LIST	3.00 I						
OR ANALYSES LIST			Marie III		T TOTAL T		
RC ANALYSES LIST 803 SDWA	sequential wi	th Ra-228, 2 gal. (EPA	900.0/903.1/904.0, e	tc.)			
WC ANALYSES LIST		Marin -					
ADDITIONAL ANALYSES			-	9 - 10 to 1 t			
FOR Field preservation confirme	d Preser	ved to pH > 12 at Lab	Preserved to pH < 2	at Lab Date/Initial:	1Apr0987E		
USE Lab Remarks:					11.10.0 17.5		
	Plea	ase use CHAIN OF CUSTO	ODY FORM when requi	rements mandate			
We, the undersigned, certify that on _		the sample ider	itified on the container	r(s) and this form by F	lequest ID number		
was transferred with evidentiary seal(s			Present & Intac	t (Present & Dan	naged		
Released by:		& Receiv	ed by:				
	Signature		e sincere was	Signat	ure		
		Additional Transf	er II Applicable				
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number							
was transferred with evidentiary seal(s) (check applicable box) (Not Present & Intact (Present & Damaged							
Released by:	1000.00	& Receiv	ved by:				
	Signature			Signat			
Print Form		Form last modifie	d on 12/23/08		Reset Form		

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424867 ANALYTICAL REPORT

SLD Accession No. RC-2009-0048

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson

NMED - Ground Water Pollution Preventio

P.O. Box 26110

COLLECTION

Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

LOCATION

DEMOGRAPHIC DATA

On: 3/31/2009 At: 13:05	By: MARK GARMAN In/Near:	Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION SMC-22							
Analytical Results									
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	33.5	2.7	1.0	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	38.3	3.2	1.1	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	11.9	2.0	1.4	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	11.7	1.9	1.4	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	42.	4.2	1.0	ug/L	Patel	200.8		
13966-29-5	Uranium-234, by Alpha Spec.	22.9	0.67	0.19	pCi/L	Ewing	7500-UC		
07440-61-1	Uranium-238, by Alpha Spec.	12.8	0.40	0.10	pCi/L	Ewing	7500-UC		
13982-63-3	Radium-226, SDWA Method	-0.01	0.01	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.11	0.05	0.12	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

6/19/2009

NEW MEXICO DEPARTMENT OF HEALTH		NALYTICAL REQUEST FORM (INTERACTIVE)							
(IUM UN UN ESTIMATION AND ESTIMATIO	Scientific Laboratory Division 700 Camino de Salud NE - PO Box 4700	Lab Accession # Here							
One Form Per Sample	Albuquerque, NM 87196 - 4700	One Form Per Sample							
	Phone 505 841 2500 • 55321 (GWB - remediation superfund)	C 55000 (DWB - SD. RC0900048							
USE>> 9 APA - AM 9: 16 CONTROL STAMP	55410 (GWB - pollution prevention)	(55420 (DWB - non-reg. contaminants)							
LAB USE - SAMPLE TEMPERATURE (deg. C):	C 55910 (SWQB - MS)	64000 (Individual client fee-for-service)							
SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3	C 55920 (SWQB - PSRS)	OTHER (enter 5-digit user code)							
SUBMITTER CODE (3-digit): 541 WSS ID (xxnnnr	nnn): FACILITY ID:	SITE ID:							
FACILITY / WSS NAME: San Mateo Creek Basin Site Investigation									
FACILITY LOCATION (if no WSS complete boxes): County: McKinley City: State: NM, or change to:									
SAMPLING LOCATION: SMC-22									
DATE COLLECTED (MM-DD-YY): 3/31/	09 BY (First Last) Name: MAR	KGARMAN							
TIME COLLECTED (HH:MM 24-hr): 1305									
SAMPLE INFO CONTACT Phone: 476-37	77 Name if not collector: David L. Maye	rson							
New / Change Address for Submitter	Name:								
New/Change Address for WSS/Client	Address: 1190 St. Francis	Dr. N2300							
Send an additional report to		7502							
FIELD DATA Non-chlorinated Chlorinate	ed Residual (mg/l): pH: Conductivi	ty (uS/cm): Temperature (deg. C):							
REMARKS Field remarks:									
DANIFLING	Compliance Non-compliance Split w	ith facility 🔽 Grab sample 🦰 Composite							
100	water Confirmation Other Describe:								
SAMPLE Filtered water Non-filtered water	C Soil/Sediment C Sludge C Blood C U	rine C Tissue C Saliva C Swipe/Smear							
TYPE Other air/liquid/solid Describe:									
PRESERVATION None X Shipped at < 4C	HCl added to pH < 2 \sqcap HNO3 added to pH < 2	H_2SO_4 added to $pH < 2$ Asc. acid added							
☐ Lab to acidify ☐ NaOH adde	d to pH > 12 Other Describe: lab to acidify								
HM ANALYSES LIST									
OR ANALYSES LIST									
RC ANALYSES LIST 803 SDWA sequential v	vith Ra-228, 2 gal. (EPA 900.0/903.1/904.0, etc.)							
WC ANALYSES LIST									
ADDITIONAL ANALYSES	17. 8.11								
	erved to pH > 12 at Lab Preserved to pH < 2 at	Lab Date/Initial: 1Apro9 THE							
USE Lab Remarks:									
P	ease use CHAIN OF CUSTODY FORM when requirer	ments mandate							
We, the undersigned, certify that onat _	the sample identified on the container(s)	and this form by Request ID number							
Date was transferred with evidentiary seal(s) (check applie	Time	350 250 50 50							
was transferred with evidentiary seal(s) (cneck applie	able box) (Not resent (resent a muct	(Tresent & Damagea							
Released by:	& Received by:	Signature							
Signature	Additional Transfer If Applicable	ang meters							
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number									
Date was transferred with evidentiary seal(s) (check applications)	Time cable box)	C Present & Damaged							
	& Received by:								
Print Form Signature	Form last modified on 12/23/08	Signature Reset Form							
the state of the s	i orinidactifodifica ori 12/23/00								

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424868 ANALYTICAL REPORT

SLD Accession No. RC-2009-0049

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson NMED GWQ Bureau Abatement and Asse P.O. Box 5469 Santa Fe, NM 87502 Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 3/30/2009 By: DAVID MAYERSON Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 14:21 In/Near: SMC-23

Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	6.2	1.1	1.8	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	8.2	1.5	2.4	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	11.6	1.7	2.8	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	10.9	1.6	2.6	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	12.	1.2	1.0	ug/L	Patel	200.8		
3982-63-3	Radium-226, SDWA Method	0.42	0.02	0.01	pCi/L	Valdez	903.1		
5262-20-1	Radium-228, SDWA Method	0.97	0.15	0.15	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

6/19/2009

NEW MEXICO DEPART	MENT OF HEALT	ГН	CHEMISTRY BU			NALYTICAL REQUE	ST FORM (INT	ERACTIVE	
		70	Scientific Laborato O Camino de Salud N				I -L Arrocc		
2424868	One Form Per Sample		Albuquerque, NM 8 Phone 505 841		700	One Form Per Sample			
LAB	A STATE OF THE STA		55321 (GWB - remediat		orfund)	55000 (DWB - SD	RC090	0049	
USE>>>00 AFR -	A 9: 16 44	<time< td=""><td>55410 (GWB - pollution</td><td></td><td></td><td>55420 (DWB - noi</td><td></td><td>(2000an 1970 1</td></time<>	55410 (GWB - pollution			55420 (DWB - noi		(2000an 1970 1	
LAB USE - SAMPLE TEMP	ERATURE (deg. C):	160	55910 (SWQB - MS)			64000 (Individua	l client fee-for-se	rvice)	
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2)	3	55920 (SWQB - PSRS)			OTHER (enter 5-d	igit user code)		
SUBMITTER CODE (3-digi	t): 541 WSS ID	(xxnnnnnnn):		F	ACILITY ID:		SITE ID:		
FACILITY / WSS NAME:			te Investigation						
FACILITY LOCATION (if no WSS complete boxes): County: McKinley City: State: NM, or change to:									
SAMPLING LOCATION:	SAMPLING LOCATION: SMC-23								
DATE COLLECTED (MM-E	10-YY): 03	130/0	BY (First Last) I	Name:	David	Mayerso	1	- 6	
TIME COLLECTED (HH:MI	124-hr): 14°	7-1	Sample	er ID#		/	4		
SAMPLE INFO CONTACT	Phone: 4	76-3777	Name if not col	lector: Da	avid L. Mayer:	son			
New / Change Address	for Submitter		> <i>\</i>	Vame:					
☐ New/Change Address	for WSS/Client		> Ad	dress: 11	190 St. Francis (Dr. N2300			
Send an additional rep	ort to		>	City: Sa	nta Fe, NM 87	502	_		
FIELD DATA (Non-c	hlorinated (Ch.	lorinated R	Residual (mg/l):	oH:	Conductivity	r (uS/cm): Te	emperature (deg	i. C):	
1	emarks:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Ti di			
SAMPLING T	NMED monitoring	Con	ppliance Non-com	pliance	☐ Split wit	h facility 💢 Grab :	sample	Composite	
DOCUMENTATION _	Finished water	Raw wate	er Confirmation	— Other	r Describe:		(A)		
SAMPLE C Filtered water	er 🕝 Non-filtered	water (Soil/Sediment C Slud	lge (Blood C Uri	ne C Tissue C S	Saliva (Sv	wipe/Smear	
TYPE Other air/liq	uid/solid Descri	be:							
None	Shipped at <	4C H	Cladded to pH < 2	HNO3 aa	dded to pH < 2	☐ H₂SO₄ added to pl	I<2 Asc.	acid added	
PRESERVATION 🔀 Lab t	o acidify NaO	H added to p	oH > 12 Other Des	cribe: lal	b to acidify				
HM ANALYSES LIST									
OR ANALYSES LIST	TE 21 4 1	12			47 1070 7				
RC ANALYSES LIST	803 SDWA seque	ntial with	Ra-228, 2 gal. (EPA 90)	0.0/903.	.1/904.0, etc.)	<u> </u>		- 50	
WC ANALYSES LIST		_					*	-	
ADDITIONAL ANALYSES	0 8		•	an		HE			
FOR Field preservati	on confirmed	Preserved	to pH > 12 at Lab	Preserve	ed to pH < 2 at L	ab Date/Initial:	Apro9	TE	
USE Lab Remarks:				<u> </u>			110101		
		Please	use CHAIN OF CUSTOD	Y FORM	when requirem	ents mandate			
We, the undersigned, certi	fy that on	at	the sample identifi	ied on th	ne container(s) i	and this form by Requ	est ID number _		
was transferred with evide	Date	Time						To a	
was transferred with evide	muary seal(s) (checi	каррисаоте	box) (Not resent	(116.	sent a maci	(Tresem a Damage	u ,		
Released by:	Signatui		& Received	by:		Signature			
	Jigilatai	·	Additional Transfer I	f Applicab	ble	Jugitation			
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number									
Date Time was transferred with evidentiary seal(s) (check applicable box) (Not Present (Present & Intact (Present & Damaged									
Released by:			& Received	by:	.58				
	Signatui		3 P 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•		Signature	Table 1		
Print Form			Form last modified of	on 12/23/	/08		Keset	Form	

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424869 ANALYTICAL REPORT

SLD Accession No. RC-2009-0050

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson
NMED GWQ Bureau Abatement and Asse
P.O. Box 5469
Santa Fe, NM 87502

Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

	COLLECTION	LOCATION							
On: 3/30/2009 At: 12:46	By: DAVID MAYERSON In/Near:	Fac	Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION SMC-24						
Analytical Results									
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	20.7	2.0	1.9	pCi/L	Crowell	SM 7110 B		

CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method
12587-46-1	Gross Alpha w/ Am-241 Reference	20.7	2.0	1.9	pCi/L	Crowell	SM 7110 B
12587-46-1	Gross Alpha w/ U-nat Reference	27.7	2.7	2.6	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Cs-137 Reference	21.5	2.1	2.8	pCi/L	Crowell	SM 7110 B
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	20.1	2.0	2.6	pCi/L	Crowell	SM 7110 B
07440-61-1	Uranium, Mass Concentration	36.	3.6	1.0	ug/L	Patel	200.8
13982-63-3	Radium-226, SDWA Method	-0.01	0.01	0.01	pCi/L	Valdez	903.1
15262-20-1	Radium-228, SDWA Method	0.33	0.18	0.15	pCi/L	Ewing	904.0

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

6/19/2009



NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA	5E1 1799	NALYTICAL REQUES	T FORM (INTERACTIVE)		
To express trans exercises exercises and a press translation of the state of the	0	Scientific Laboratory Di 700 Camino de Salud NE - PC	Box 4700	0	I ah Arreccion # Horo		
2424869	One Form Per Sample	Albuquerque, NM 87196 Phone 505 841 250		One Form Per Sample			
LAB	DAT				RC0900050		
USE>{>) / Fix - ; /iii		E		Account of the second s	n-reg. contaminants)		
LAB USE - SAMPLE TEMP	PERATURE (deg. C):	55910 (SWQB - MS)		64000 (Individual	client fee-for-service)		
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	C 55920 (SWQB - PSRS)		OTHER (enter 5-di	git user code)		
SUBMITTER CODE (3-digi	it): 541 WSS ID (xxnn)	nnnn):	FACILITY ID:		SITE ID:		
FACILITY / WSS NAME:	San Mateo Creek B	asin Site Investigation					
FACILITY LOCATION (if n	o WSS complete boxes):	County: McKinley	City:	Sto	ate: NM, or change to:		
SAMPLING LOCATION:	SMC-	24					
DATE COLLECTED (MM-E	DD-YY): 03/30	2009 BY (First Last) Name.	David	Nayer50	و		
TIME COLLECTED (HH:MI	M24-hr): 124	6 Sampler ID #		l			
SAMPLE INFO CONTACT	Phone: 476-3	777 Name if not collector.	David L. Mayer	son			
New / Change Address	for Submitter	> Name.					
New/Change Address	for WSS/Client	> Address:	1190 St. Francis I	Dr. N2300			
Send an additional rep			Santa Fe, NM 87	502			
AND	chlorinated Chlorina emarks:	nted Residual (mg/l): pH:	Conductivity	y (uS/cm): Te	emperature (deg. C):		
		- Campliance - F Non camplian	so = Enlistmis	th facility . No Graha	cample F Composite		
DOCUMENTATION .	- 1	Compliance Non-complian		h facility 💢 Grab s	ample Composite		
J		wwater Confirmation O	The state of the s				
	-	er (Soil/Sediment (Sludge (Blood C Uri	ine (Tissue (S	aliva C Swipe/Smear		
(Other diffing	DEJCTION.				1 = 30		
PRESERVATION	-	HCl added to pH < 2 HNO.		H ₂ SO ₄ added to pH	< 2 Asc. acid added		
	o acidify NaOH add	led to pH > 12 Other Describe:	lab to acidify		. J. 1. NA)		
HM ANALYSES LIST							
OR ANALYSES LIST							
RC ANALYSES LIST	803 SDWA sequential	with Ra-228, 2 gal. (EPA 900.0/9	03.1/904.0, etc.)				
WC ANALYSES LIST							
ADDITIONAL ANALYSES							
FOR Field preservati	on confirmed Pro	eserved to pH > 12 at Lab Press	erved to pH < 2 at L	ab Date/Initial: [F	3JTP07gf		
USE Lab Remarks:							
		Please use CHAIN OF CUSTODY FOI	RM when requirem	ents mandate			
We, the undersigned, certi	fy that on at	the sample identified or	the container(s)	and this form by Reque	est ID number		
-	Date	Time					
was transferred with evide	entiary seal(s) (check app	licable box) (Not Present (rresent & intact	(Present & Damageo	'		
Released by:		& Received by:					
	Signature	Additional Transfer If Apple	icable	Signature			
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number							
Date Time was transferred with evidentiary seal(s) (check applicable box) \(\begin{array}{c}\text{Not Present & Intact}\) \(\begin{array}{c}\text{Present & Damaged}\)							
Released by:		& Received by:					
City Drint Form	Signature			Signature	Poset Form		
Print Form		Form last modified on 12/	23/08		Reset Form		

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 26, 2009

Request ID No. 2424870 ANALYTICAL REPORT

SLD Accession No. RC-2009-0051

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson

NMED - Ground Water Pollution Preventio

P.O. Box 5469

Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

JUL 07 2019

BY ...

SLD: Radiochemistry Section **Scientific Laboratory Division** 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

9 By: DAVID MAYERSON In/Near:	Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION SMC-25								
Analytical Results									
Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method			
Gross Alpha w/ Am-241 Reference	16.0	1.5	1.9	pCi/L	Crowell	SM 7110 B			
Gross Alpha w/ U-nat Reference	19.3	1.9	2.3	pCi/L	Crowell	SM 7110 B			
Gross Beta w/ Cs-137 Reference	10.8	1.9	3.4	pCi/L	Crowell	SM 7110 B			
Gross Beta w/ Sr/Y-90 Reference	10.4	1.9	3.4	pCi/L	Crowell	SM 7110 B			
Uranium, Mass Concentration	26.	2.6	1.0	ug/L	Patel	200.8			
Radium-226, SDWA Method	-0.01	0.02	0.02	pCi/L	Valdez	903.1			
Radium-228, SDWA Method	0.51	0.12	0.16	pCi/L	Ewing	904.0			
	Analyte Gross Alpha w/ Am-241 Reference Gross Alpha w/ U-nat Reference Gross Beta w/ Cs-137 Reference Gross Beta w/ Sr/Y-90 Reference Uranium, Mass Concentration Radium-226, SDWA Method	Analyte Value Gross Alpha w/ Am-241 Reference 16.0 Gross Alpha w/ U-nat Reference 19.3 Gross Beta w/ Cs-137 Reference 10.8 Gross Beta w/ Sr/Y-90 Reference 10.4 Uranium, Mass Concentration 26. Radium-226, SDWA Method -0.01	Analyte Value Sigma Gross Alpha w/ Am-241 Reference 16.0 1.5 Gross Alpha w/ U-nat Reference 19.3 1.9 Gross Beta w/ Cs-137 Reference 10.8 1.9 Gross Beta w/ Sr/Y-90 Reference 10.4 1.9 Uranium, Mass Concentration 26. 2.6 Radium-226, SDWA Method -0.01 0.02	In/Near: SMC-25 Analyte Value Sigma D. Lmt. Gross Alpha w/ Am-241 Reference 16.0 1.5 1.9 Gross Alpha w/ U-nat Reference 19.3 1.9 2.3 Gross Beta w/ Cs-137 Reference 10.8 1.9 3.4 Gross Beta w/ Sr/Y-90 Reference 10.4 1.9 3.4 Uranium, Mass Concentration 26. 2.6 1.0 Radium-226, SDWA Method -0.01 0.02 0.02	In/Near: SMC-25 Analyte Value Sigma D. Lmt. Units Gross Alpha w/ Am-241 Reference 16.0 1.5 1.9 pCi/L Gross Alpha w/ U-nat Reference 19.3 1.9 2.3 pCi/L Gross Beta w/ Cs-137 Reference 10.8 1.9 3.4 pCi/L Gross Beta w/ Sr/Y-90 Reference 10.4 1.9 3.4 pCi/L Uranium, Mass Concentration 26. 2.6 1.0 ug/L Radium-226, SDWA Method -0.01 0.02 0.02 pCi/L	Analyteal Reference Analyte Value Sigma D. Lmt. Units Analyst Gross Alpha w/ Am-241 Reference 16.0 1.5 1.9 pCi/L Crowell Gross Alpha w/ U-nat Reference 19.3 1.9 2.3 pCi/L Crowell Gross Beta w/ Cs-137 Reference 10.8 1.9 3.4 pCi/L Crowell Gross Beta w/ Sr/Y-90 Reference 10.4 1.9 3.4 pCi/L Crowell Uranium, Mass Concentration 26. 2.6 1.0 ug/L Patel Radium-226, SDWA Method -0.01 0.02 0.02 pCi/L Valdez			

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

6/26/2009

NEW MEXICO DEPAR	TMENT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQUEST	FORM (INTERACTIVE		
L TROUBLESHE SHAN KOMOTOTOTOTOTOTOTOTOTOTOTOTO	Omo Form	Scientific Laboratory Div 700 Camino de Salud NE - PC	Box 4700	One Form	I ah According # Us		
2424870	One Form Per Sample	Albuquerque, NM 87196 Phone 505 841 250		One Form Per Sample			
LAB	DAT		iperfund)	55000 (DWB - SDvv	RC0900051 A - Tee-Tor-service)		
USE>>> US I	1.11 9: 15<< <tim< td=""><td></td><td>ention)</td><td>55420 (DWB - non-</td><td>reg. contaminants)</td></tim<>		ention)	55420 (DWB - non-	reg. contaminants)		
LAB USE - SAMPLE TEM	PERATURE (deg. C):			64000 (Individual c	lient fee-for-service)		
SAMPLE PRIORITY: (1, 2)	, 3 - call Lab if 1 or 2) 3	55920 (SWQ8 - PSRS)		OTHER (enter 5-dig	it user code)		
SUBMITTER CODE (3-dig	it): 541 WSS ID (xxnnr	nnnnn):	FACILITY ID:		SITE ID:		
FACILITY / WSS NAME:	San Mateo Creek Ba	asin Site Investigation					
FACILITY LOCATION (if r	no WSS complete boxes):	County: McKinley	City:	Stat	e: NM, or change to:		
SAMPLING LOCATION:	SMC-	25		· · · · · · · · · · · · · · · · · · ·			
DATE COLLECTED (MM-L		/	David	Mayerson			
TIME COLLECTED (HH:M		Z Sampler ID #		1			
SAMPLE INFO CONTACT	Phone: 476-3:	777 Name if not collector:	David L. Mayer	son			
☐ New / Change Address	s for Submitter	Name:					
New/Change Address	s for WSS / Client	> Address:	1190 St. Francis I	Dr. N2300	.101		
Send an additional rep	port to	> City:	Santa Fe, NM 87	502			
FIELD DATA (Non-	chlorinated (Chlorina	nted Residual (mg/l): pH:	Conductivity	y (uS/cm): Ten	perature (deg. C):		
	emarks:						
SAMPLING T	NMED monitoring	Compliance Non-compliance	ce 📙 Split wit	h facility 🔀 Grab sa	mple		
DOCUMENTATION _	Finished water Ra	www.water Confirmation Ot	ther Describe:	1			
SAMPLE Filtered wat	er 🌀 Non-filtered wate	er C Soil/Sediment C Sludge C	Blood C Uri	ne C Tissue C Sa	liva C Swipe/Smear		
TYPE Other air/liq	uid/solid Describe:	o militaria					
PRESERVATION Non	e	☐ HCl added to pH < 2 ☐ HNO	added to pH < 2	☐ H2SO4 added to pH <	2 Asc. acid added		
X Lab	to acidify 📙 NaOH add	ded to pH > 12 Other Describe:	lab to acidify				
HM ANALYSES LIST		The part of the second		The state of the s			
OR ANALYSES LIST		117					
RC ANALYSES LIST	803 SDWA sequential	with Ra-228, 2 gal. (EPA 900.0/90	03.1/904.0, etc.)				
WC ANALYSES LIST		777					
ADDITIONAL ANALYSES			1 6	17 THE STREET			
FOR Field preservat	ion confirmed Pre	eserved to pH > 12 at Lab Prese	rved to pH < 2 at L	ab Date/Initial: 10	arog Tie		
USE Lab Remarks:			50 m ii - 16 i 4				
		Please use CHAIN OF CUSTODY FOR	RM when requirem	ents mandate	1000		
We, the undersigned, certi	ify that onat	the sample identified on	the container(s)	and this form by Reques	t ID number		
	Date	Time licable box) (Not Present ()					
40 E.O.	entiary seal(s) (check appi			(riesent a Daniagea			
Released by:	Signature	& Received by:	.11- 83	Signature			
	5,4,1117	Additional Transfer If Appli	cable	2.3			
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number							
Date Time was transferred with evidentiary seal(s) (check applicable box) \(\begin{array}{c}Not Present \(\Chi\) Present \(\Chi\) Intact \(\Chi\) Present \(\Chi\) Damaged							
	y variety (arrear appr						
Released by:	Signature	& Received by:		Signature			
Print Form		Form last modified on 12/	23/08		Reset Form		

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 20, 2009

Request ID No. 2424871 ANALYTICAL REPORT
SLD Accession No. RC-2009-0052

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson
NMED - Ground Water Pollution Preventio
P.O. Box 5469

Santa Fe, NM 87502

User: David Mayerson NMED GWQ Bure

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

DEMOGRATING DATA								
	COLLECTION	LOCATION						
On: 3/31/2009 At: 15:15	By: MARK GARMAN In/Near:	Fac	5	AN MATEO MC-26	CREEK BAS	SIN SITE INVESTIG	SATION	
	An	alytical F	Results	5				_
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method	
12587-46-1	Gross Alpha w/ Am-241 Reference	128.3	9.5	1.0	pCi/L	Crowell	SM 7110 B	

Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	128.3	9.5	1.0	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	149.2	11.0	1.1	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	46.2	6.8	1.4	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	45.3	6.7	1.4	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	170.	17.	5.0	ug/L	Patel	200.8		
13966-29-5	Uranium-234, by Alpha Spec.	82.4	2.32	0.28	pCi/L	Ewing	7500-UC		
07440-61-1	Uranium-238, by Alpha Spec.	52.9	1.56	0.18	pCi/L	Ewing	7500-UC		
13982-63-3	Radium-226, SDWA Method	0.13	0.01	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.24	0.11	0.15	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.

NEW MEXICO DEPARTMENT OF HEALTH	CHEMISTRY BUREAU	ANALYTICAL REQUEST FORM (INTERACTIVE
Coe Form	Scientific Laboratory Division 700 Camino de Salud NE - PO Box 4700)
2424871 Per Sample	Albuquerque, NM 87196 - 4700 Phone 505 841 2500	One Form
LAB DATE		C 55000 (DWB - SDWA - fee-for-service)
USE>>> 09 1.51 1 11 9: 17 << <timi< td=""><td></td><td>(55420 (DWB - non-reg, contaminants)</td></timi<>		(55420 (DWB - non-reg, contaminants)
LAB USE - SAMPLE TEMPERATURE (deg. C):	55910 (SWQB - MS)	64000 (Individual client fee-for-service)
SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)	OTHER (enter 5-digit user code)
SUBMITTER CODE (3-digit): 541 WSS ID (xxnnn	I'	
	sin Site Investigation	3.1.2.2.1
FACILITY LOCATION (if no WSS complete boxes):	County: McKinley City:	State: NM, or change to:
SAMPLING LOCATION: SMC - 7		
DATE COLLECTED (MM-DD-YY): 3/31/1		HRY GARMANI
TIME COLLECTED (HH:MM 24-hr): 1515	Sampler ID #	The Silver
SAMPLE INFO CONTACT Phone: 476-37	77 Name if not collector: David L. I	Mayerson
New / Change Address for Submitter	> Name:	
New / Change Address for WSS / Client	> Address: 1190 St. Fr	rancis Dr. N2300
Send an additional report to	> City: Santa Fe, I	NM 87502
FIELD DATA (Non-chlorinated Chlorina	ed Residual (mg/l): pH: Cond	luctivity (uS/cm): Temperature (deg. C):
REMARKS Field remarks:		*
SAMPLING NMED monitoring	Compliance Non-compliance	plit with facility 😾 Grab sample 🔀 Composite
DOCUMENTATION Finished water Ra	water Confirmation Other Descri	ibe:
SAMPLE Filtered water (Non-filtered water	C Soil/Sediment C Sludge C Blood	Urine C Tissue C Saliva C Swipe/Smear
TYPE Other air/liquid/solid Describe:		A 2 1 - 11
PRESERVATION None Shipped at < 4 C	HCl added to pH < 2 HNO3 added to p	$0H < 2$ \square H_2SO_4 added to $pH < 2$ \square Asc. acid added
	ed to pH > 12 Other Describe: lab to aci	dify
HM ANALYSES LIST		
OR ANALYSES LIST		
RC ANALYSES LIST 803 SDWA sequential	with Ra-228, 2 gal. (EPA 900.0/903.1/904.0	, etc.)
WC ANALYSES LIST		
ADDITIONAL ANALYSES		
FOR Field preservation confirmed Pre.	erved to pH > 12 at Lab Preserved to pH	<2 at Lab Date/Initial: Apro9 TVE
USE Lab Remarks:		
·	lease use CHAIN OF CUSTODY FORM when re	quirements mandate
We, the undersigned, certify that onat	the sample identified on the contai	ner(s) and this form by Request ID number
Date was transferred with evidentiary seal(s) (check appli	Time cable box) C Not Present C Present & In	tact C Present & Damaged
Released by:	& Received by:	Signature
	Additional Transfer If Applicable	
We, the undersigned, certify that onat		ner(s) and this form by Request ID number
Date was transferred with evidentiary seal(s) (check appli	Time cable box)	act (Present & Damaged
Released by:	& Received by:	
Sianature		Signature
Print Form	Form last modified on 12/23/08	Reset Form

To: David Mayerson

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 13, 2009

Request ID No. 2424885 **ANALYTICAL REPORT**

SLD Accession No. RC-2009-0066

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

NMED - Ground Water Pollution Preventio P.O. Box 5469 Santa Fe, NM 87502 User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

GROUND WATER

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

Albuquerque, NM 87196-4700

BUREAU

JUL 1 6 2009

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 4/2/2009 By: DAVID L MAYERSON Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 11:00 In/Near: SMC-28

Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	19.4	2.2	0.6	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	22.6	2.6	0.7	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	19.1	2.5	1.1	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	18.6	2.4	1.1	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	43	4.3	1.0	ug/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.15	0.01	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.34	0.11	0.17	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.

Reviewed By:

Nidal Jadalla

7/13/2009

NEW NEXICO DEPAR	TMENT OF HEALTH	CHEMISTRY BUREA	NU A	NALYTICAL REQUEST	FORM (INTERACTIVE
1 MATERIA SECUE ALBERT ATERI ELLERA SALVANI ARRIO DELL'ARRIO.		Scientific Laboratory Di 700 Camino de Salud NE - PO		i i	
2424885	One Form Per Sample	Albuquerque, NM 87196 Phone 505 841 250	- 4700	One Form Per Sample	RC0900066
LAB USE>>>09 AF A - U	1 12:58 DATE	6 55321 (GWB - remediation st		55000 (DWB - SDWA	\ - fee-for-service)
ONLY	STAMP	55410 (GWB - pollution previ	ention)	55420 (DWB - non-re	eg. contaminants)
LAB USE - SAMPLE TEM	PERATURE (deg. C): 3	55910 (SWQB - MS)		64000 (Individual cli	ent fee-for-service)
SAMPLE PRIORITY: (1, 2)	, 3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-digit	user code)
SUBMITTER CODE (3-dig	it): 541 WSS ID (xxnnnn	nnn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Bas	in Site Investigation			
FACILITY LOCATION (if r	no WSS complete boxes):	County: McKinley	City:	State	: NM, or change to:
SAMPLING LOCATION:	5MC	C-2B		1	
DATE COLLECTED (MM-L	DD-YY): 4/2/0	DS BY (First Last) Name	Davis	o Payer	· _
TIME COLLECTED (HH:M	M 24-hr):	Sampler ID #		1	VI V III
SAMPLE INFO CONTACT	Phone: 476-377	77 Name if not collector	David L. Maye	rson	
☐ New/Change Address	s for Submitter	> Name			
New / Change Address	s for WSS / Client	> Address	1190 St. Francis	Dr. N2300	
Send an additional rep	port to	> City.	Santa Fe, NM 8	7502	
AND	chlorinated Chlorinate	ed Residual (mg/l): pH:	Conductivi	ty (uS/cm): Temp	perature (deg. C):
7.59/1676/909	A Paragraphic Control of the Control				
DOCUMENTATION		Compliance Non-complian water Confirmation 0		ith facility 🔀 Grab san	nple Composite
SAMPLE Filtered wat	er (Non-filtered water	C Soil/Sediment C Sludge C	Blood C U	rine (Tissue (Sali	va C Swipe/Smear
TYPE Other air/liq	uid/solid Describe:				
PRESERVATION	e ▼ Shipped at < 4 C to acidify	HCl added to pH < 2 HNO. d to pH > 12 Other Describe:		☐ H ₂ SO ₄ added to pH < .	2 Asc. acid added
HM ANALYSES LIST	1	a to private outer Describe.	liab to acidity	100	
OR ANALYSES LIST					
process and an action of the second s	202 CDWA		02 1/0040		-
RC ANALYSES LIST WC ANALYSES LIST	803 SDWA sequential v	vith Ra-228, 2 gal. (EPA 900.0/9	03.1/904.0, etc.)	
		11 1 1 2	1000		
FOR Field preservat		erved to pH > 12 at Lab Prese	enved to nH < 2 or	Inh Date/Initial: 2 N	
LAB	FIES	riese opins 12 de cuo priese	area to pri \ 201	TO DOTE MINION: 12 14	16403 JAB
USE Lab Remarks:		CHAIN OF CUSTODY FOR	388 - 6 - i 1		
	PI	ease use CHAIN OF CUSTODY FOR	KIN When requirer	nents manaate	
We, the undersigned, cert	ify that onat _ Date	the sample identified or	the container(s)	and this form by Request	ID number
was transferred with evide		able box) (Not Present (Present & Intact	C Present & Damaged	İ
Released by:		& Received by:			
	Signature	Additional Transfer If Apple	icable	Signature	
We, the undersigned, certi	ify that onat _	the sample identified on	the container(s)	and this form by Request	ID number
was transferred with evide		rable box) (Not Present (P	resent & Intact	C Present & Damaged	
Released by:		& Received by: _			
Print Form	Signature	Form last modified on 12/	23/08	Signature	Reset Form
the state of the State S		I the street in the will be			Colonia de la co

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 1, 2009

Request ID No. 2424884 ANALYTICAL REPORT

SLD Accession No. RC-2009-0058

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

P.O. Box 26110 Santa Fe, NM 87502

To: NMED - Ground Water Pollution Preventio

User: David Mayerson NMED GWQ Bureau Abatement and Assessm P.O. Box 5469 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION	LOCATION	
n: 4/2/2009 By: DAVID L MAYERSON At: 9:45 In/Near:	Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION SMC-30	

	Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method			
12587-46-1	Gross Alpha w/ Am-241 Reference	2.0	0.5	0.6	pCi/L	Crowell	SM 7110 B			
12587-46-1	Gross Alpha w/ U-nat Reference	2.4	0.6	0.8	pCi/L	Crowell	SM 7110 B			
12587-47-2	Gross Beta w/ Cs-137 Reference	3.2	0.7	1.2	pCi/L	Crowell	SM 7110 B			
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	3.1	0.7	1.1	pCi/L	Crowell	SM 7110 B			
15262-20-1	Radium-228, SDWA Method	0.80	0.13	0.15	pCi/L	Ewing	904.0			

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

6/1/2009

NEW MEXICO DEPARTMEN	NT OF HEALTH	CHEMISTRY BUREA Scientific Laboratory Div		NALYTICAL REQUEST	FORM (INTERACTIVE)
1/10/14 11/14 31/14 1/14 01/14 10/14 10/14 10/14 10/14	One Form	700 Camino de Salud NE - PC	Box 4700	One Form	MITTALISM DINCINA DINCHAL DINCHAL
2424884	Per Sample	Albuquerque, NM 87196 Phone 505 841 2500		Per Sample	RC0900058
USE> 05 1.7 1 3 11112	:58 DATE	← 55321 (GWB - remediation su	perfund)	55000 (DWB - SDW)	
ONLY	STAMP	C 55410 (GWB - pollution preve	ention)	55420 (DWB - non-i	eg. contaminants)
LAB USE - SAMPLE TEMPERA	TURE (deg. C):	55910 (SWQB - MS)		64000 (Individual cl	lient fee-for-service)
SAMPLE PRIORITY: (1, 2, 3 - co	all Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-digi	t user code)
SUBMITTER CODE (3-digit): 54	41 WSS ID (xxnnnnn	nn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME: Sa	an Mateo Creek Basii	n Site Investigation			
FACILITY LOCATION (if no WS	S complete boxes):	County: McKinley	City:	State	e: NM, or change to:
SAMPLING LOCATION:	SMC-	30		1	
DATE COLLECTED (MM-DD-YY	1: 4/2/07	BY (First Last) Name:	Avio	d C Ney Co	500
TIME COLLECTED (HH:MM 24-	hr): 6945	Sampler ID #		1	
SAMPLE INFO CONTACT Phon	ne: 476-3777	Name if not collector:	David L. Mayer	son	
New / Change Address for S	ubmitter	> Name:			
☐ New / Change Address for V	WSS / Client	> Address:	1190 St. Francis (Dr. N2300	
Send an additional report to) *************************************	> City:	Santa Fe, NM 87	502	78.02.3
AND	nated Chlorinated	Residual (mg/l): pH:	Conductivity	y (uS/cm): Tem	perature (deg. C):
REMARKS Field remark		Compliance Non-compliance	e Split wit	th facility 💢 Grab sar	nala - Campasita
DOCUMENTATION		Compliance Non-compliance water Confirmation Cot		macinty X Grabsur	nple Composite
SAMPLE Filtered water	Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ine (Tissue (Sal	iva C Swipe/Smear
TYPE Other air/liquid/se	olid Describe:				
PRESERVATION	· ·	HCl added to pH < 2 HNO3 to pH > 12 Other Describe:	1064	☐ H2SO4 added to pH <	2 Asc. acid added
HM ANALYSES LIST		DESCRIBE.	iab to actumy	4,000	
OR ANALYSES LIST					
	CDIMA	ab 0- 220 21 /FDA 000 0/00	17.1/0040		
	SDWA sequential Wi	th Ra-228, 2 gal. (EPA 900.0/90	13.1/904.0, etc.)		
WC ANALYSES LIST				***	
FOR Field preservation co	unfirmed I Proces	ved to pH > 12 at Lab X Prese.	nyed to nH < 2 ct l	ah Data/Initiali	-0.5.5
LAB	Treser	ved to pri > 12 di Edo Triese		do Dateminar SA	2009 THE
USE Lab Remarks:	Dis	CHAIN OF CUSTODY FOR	Na colores de la		
	Plea	ase use CHAIN OF CUSTODY FOR	ı vı wnen requirem	ents manaate	ĺ
We, the undersigned, certify tha		the sample identified on Time	the container(s)	and this form by Request	: ID number
was transferred with evidentiar	y seal(s) (check applica	ble box) (Not Present (F	Present & Intact	Present & Damaged	
Released by:	Signature	& Received by:	-	Signature	
	signature	Additional Transfer If Applie	cable	signature	1
We, the undersigned, certify tha		the sample identified on	the container(s) a	and this form by Request	ID number
was transferred with evidentiar	ry seal(s) (check applica	ble box) (Not Present (Pi	resent & Intact	Present & Damaged	
Released by:		& Received by:			
Print Form	Signature	Form last modified on 12/2	23/08	Signature	Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

May 15, 2009

Request ID No. 2424883 ANALYTICAL REPORT
SLD Accession No. RC-2009-0057

Distribution (x) User 55321

(x) Submitter 541 . Client 0-0

(x) SLD Files

To: NMED GWQ Bureau Abatement and Asse P.O. Box 5469

Santa Fe. NM 87502

Submitter: NMED - Ground Water Pollution Prevention S P.O. Box 26110

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

	COLLECTION		LOCATION
On: 4/2/2009	By: DAVID L MAYERSON	Facility:	SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 11:29	In/Near:		SMC-31

	Analytical Results								
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	-0.1	0.4	0.9	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	-0.1	0.5	1.1	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	2.0	0.8	1.5	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	2.0	0.7	1.4	pCi/L	Crowell	SM 7110 B		
15262-20-1	Radium-228, SDWA Method	0.38	0.12	0.15	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal Jadalla

5/15/2009



Form last modified on 12/23/08

Print Form

9

Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 20, 2009

Request ID No. 2424881 ANALYTICAL REPORT
SLD Accession No. RC-2009-0061

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: NMED - Ground Water Pollution Preventio P.O. Box 5469 Santa Fe, NM 87502 User: NMED GWQ Bureau Abatement and Assessm P.O. Box 5469 Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

MI 24 2009

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 4/1/2009 By: EARLE DIXON Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION

At: 13:22 In/Near: Milan SMC-32

Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	56.0	4.4	1.5	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	72.6	5.7	1.9	pCi/L	Crowell	SM 7110 B		
2587-47-2	Gross Beta w/ Cs-137 Reference	53.2	4.4	2.3	pCi/L	Crowell	SM 7110 B		
2587-47-2	Gross Beta w/ Sr/Y-90 Reference	50.3	4.1	2.1	pCi/L	Crowell	SM 7110 B		
7440-61-1	Uranium, Mass Concentration	100.	10.	5.0	ug/L	Patel	200.8		
3982-63-3	Radium-226, SDWA Method	2.90	0.09	0.01	pCi/L	Valdez	903.1		
5262-20-1	Radium-228, SDWA Method	3.91	0.40	0.16	pCi/L	Ewing	904.0		
	* Annual Carrier Manual Company - Valle Dead Condent Company Condent								

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

Nidal dadalla

7/20/2009

NEW MEXICO DEPART		CHEMISTRY BUREA Scientific Laboratory Div 700 Camino de Salud NE - PC Albuquerque, NM 87196 Phone 505 841 250	vision) Box 4700 - 4700		TFORM (INTERACTIVE)
LAB USE>>> 09 AFT 3	1412:58 DATE	6 55321 (GWB - remediation su	perfund)	55000 (DWB - SDN	
ONLY	STAMP	55410 (GWB - pollution preve	ention)	55420 (DWB - non-	-reg. contaminants)
LAB USE - SAMPLE TEMP	ERATURE (deg. C):	55910 (SWQB - MS)		64000 (Individual o	client fee-for-service)
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-dig	jit user code)
SUBMITTER CODE (3-digi	t): 541 WSS ID (xxnnnnr	nnn):	FACILITY ID:		SITE ID:
FACILITY / WSS NAME:	San Mateo Creek Basi				
FACILITY LOCATION (if no	o W55 complete boxes):	County: McKinley/Cibola	City: M	ilan sta	te: NM, or change to: NM
SAMPLING LOCATION:	SMC-3		26 27		
DATE COLLECTED (MM-D	01/01	BY (First Last) Name: Sampler ID #	1011110	E DIXC	N
SAMPLE INFO CONTACT			David L. Maver	son	
New / Change Address	for Submitter				E 1 m.
New / Change Address	for WSS / Client	> Address:	1190 St. Francis	Dr. N2300	
Send an additional rep	ort to	> City:	Santa Fe, NM 87	502	
AND	hlorinated Chlorinated		Conductivit		nperature (deg. C):
DOCUMENTATION	Finished water 💢 Raw	Compliance Non-compliand water Confirmation Ot	her Describe:		- 120
SAMPLE Filtered wate		C Soil/Sediment C Sludge C	Blood (Un	ine (Tissue (Sa	aliva C Swipe/Smear
PRESERVATION		HCl added to pH < 2 HNO3		H2SO4 added to pH	< 2 Asc. acid added
HM ANALYSES LIST		P. M. M. P. Sandall			E
OR ANALYSES LIST	- IX. Line	***	Alam In		
RC ANALYSES LIST	803 SDWA sequential w	ith Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)		
WC ANALYSES LIST			11-1/1		7
ADDITIONAL ANALYSES			Mark 11 30	*****	
FOR Field preservation	on confirmed Prese	rved to pH > 12 at Lab Prese	rved to pH < 2 at l	ab Date/Initial: 3	Aproq TE
USE Lab Remarks:				10.	113100
	Ple	ase use CHAIN OF CUSTODY FOR	M when requiren	nents mandate	
We, the undersigned, certif		the sample identified on	the container(s)	and this form by Reques	st ID number
was transferred with evide	ntiary seal(s) (check applica	able box) (Not Present ()	Present & Intact	Present & Damaged	
Released by:		& Received by:			
	Signature	Additional Transfer If Appli	cable	Signature	,
We, the undersigned, certif		the sample identified on	the container(s)	and this form by Reques	it ID number
was transferred with evide	Date ntiary seal(s) (check applica	Time pible box) (Not Present (Pr	resent & Intact	(Present & Damaged	
Released by:		& Received by:			
Print Form	Signature	Form last modified on 12/2	23/08	Signature	Reset Form

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

August 12, 2009

Request ID No. 2424879 ANALYTICAL REPORT
SLD Accession No. RC-2009-0063

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: Earl Dixon
NMED GWQ Bureau Abatement and Asse
P.O. Box 5469
Santa Fe, NM 87502

Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 5469

Santa Fe, NM 87502

GROUND WATER

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

AUG 1 7 2009

Client

COLLECTION

SLD Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700

BUREAU

Albuquerque, NM 87196-4700

LOCATION

DEMOGRAPHIC DATA

On: 4/1/2009 At: 12:13	By: EARLE DIXON In/Near: Milan	Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION SMC-33							
Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	72.1	5.1	1.2	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	89.4	6.3	1.5	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	65.1	5.3	2.2	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	62.5	5.1	2.1	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	150.	15.	5.0	ug/L	Patel	200.8		
13966-29-5	Uranium-234, by Alpha Spec.	53.5	1.52	0.37	piCi/L	Ewing	7500-UC		
07440-61-1	Uranium-238, by Alpha Spec.	42.7	1.25	0.31	pCi/L	Ewing	7500-UC		
13982-63-3	Radium-226, SDWA Method	0.13	0.01	0.01	pCi/L	Valdez	903.1		
5262-20-1	Radium-228, SDWA Method	0.50	0.13	0.16	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.

Signature of Nidal on back of form. Signed 8/12/2009.

ANALYTICAL REQUEST FORM (INTERACTIVE) DEPARTMENT OF HEALTH **CHEMISTRY BUREAU** Scientific Laboratory Division 700 Camino de Salud NE - PO Box 4700 One Form FRANKA DATUM DAN BUM DAN DAN BUM BUM BU One Form Albuquerque, NM 87196 - 4700 23 Per Sample Per Sample RC0900063 Phone 505 841 2500 LAB 6 55321 (GWB - remediation superfund) C 55000 (DWB - SDWA - fee-for-service) USE>>> 09 17 1 - 3 F1112: 58 <<< TIME C 55410 (GWB - pollution prevention) C 55420 (DWB - non-reg. contaminants) LAB USE - SAMPLE TEMPERATURE (deg. C): C 55910 (SWQB - MS) 64000 (Individual client fee-for-service) C 55920 (SWQB - PSRS) C OTHER (enter 5-digit user code) SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) | 3 SUBMITTER CODE (3-digit): 541 WSS ID (xxnnnnnnnn): **FACILITY ID:** SITE ID: FACILITY / WSS NAME: San Mateo Creek Basin Site Investigation FACILITY LOCATION (if no WSS complete boxes): State: NM, or change to: NM County: McKinley (Cibola Milan SAMPLING LOCATION: 5MC - 33 DIXON EARLE DATE COLLECTED (MM-DD-YY): 109 BY (First Last) Name: TIME COLLECTED (HH:MM 24-hr): Sampler ID # SAMPLE INFO CONTACT Phone: Name if not collector: David L. Mayerson 476-3777 New / Change Address for Submitter -----> New/Change Address for WS5/Client -----> Address: 1190 St. Francis Dr. N2300 Send an additional report to -----> City: Santa Fe, NM 87502 FIELD DATA (6 Non-chlorinated (Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C): AND REMARKS Field remarks: ■ NMED monitoring ■ Compliance ■ Non-compliance ■ Split with facility □ Grab sample Composite SAMPLING **DOCUMENTATION** Finished water Raw water Confirmation Other Describe: SAMPLE (Filtered water (Non-filtered water (Soil/Sediment (Sludge (Blood (Urine (Tissue (Saliva C Swipe/Smear C Other air/liquid/solid Describe: \[
 \overline{\text{Lab to acidify}} \]
 \[
 \overline{\text{NaOH added to pH > 12}} \]
 \[
 \overline{\text{Other Describe: lab to acidify}}
 \] HM ANALYSES LIST OR ANALYSES LIST RC ANALYSES LIST 803 SDWA sequential with Ra-228, 2 gal. (EPA 900.0/903.1/904.0, etc.) WC ANALYSES LIST ADDITIONAL ANALYSES Field preservation confirmed Preserved to pH > 12 at Lab Preserved to pH < 2 at Lab Date/Initial: LAB **USE** Lab Remarks: Please use CHAIN OF CUSTODY FORM when requirements mandate the sample identified on the container(s) and this form by Request ID number ____ We, the undersigned, certify that on ___ Time Date was transferred with evidentiary seal(s) (check applicable box) (Not Present @ Present & Intact (Present & Damaged Released by: ____ ___& Received by: ____ Signature Sianature Additional Transfer If Applicable ___ the sample identified on the container(s) and this form by Request ID number ___ We, the undersigned, certify that on _ Date Time was transferred with evidentiary seal(s) (check applicable box) (Not Present @ Present & Intact (Present & Damaged __ & Received by: _ Released by: _ Sianature Signature Print Form Reset Form

Form last modified on 12/23/08

P.O. Box 4700 Albuquerque, NM 87196

700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 7, 2009

Request ID No. 2424880 ANALYTICAL REPORT
SLD Accession No. RC-2009-0056

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson NMED GWQ Bureau Abatement and Asse P.O. Box 5469 Santa Fe, NM 87502

Submitter: David Mayerson
NMED - Ground Water Pollution Prevention S

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 03, 2009

Client:

SLD: Radiochemistry Section Scientific Laboratory Division 700 Camino de Salud, NE P.O. Box 4700 Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 4/1/2009 By: EARLE DIXON Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 11:05 In/Near: Milan SMC-34

Analytical Results									
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method		
12587-46-1	Gross Alpha w/ Am-241 Reference	56.2	4.5	1.8	pCi/L	Crowell	SM 7110 B		
12587-46-1	Gross Alpha w/ U-nat Reference	74.1	5.9	2.4	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Cs-137 Reference	49.0	4.2	2.0	pCi/L	Crowell	SM 7110 B		
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	46.4	4.0	1.9	pCi/L	Crowell	SM 7110 B		
07440-61-1	Uranium, Mass Concentration	100.	10.	5.0	ug/L	Patel	200.8		
13982-63-3	Radium-226, SDWA Method	0.27	0.02	0.01	pCi/L	Valdez	903.1		
15262-20-1	Radium-228, SDWA Method	0.46	0.13	0.15	pCi/L	Ewing	904.0		

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By:

lidal Jadalla

7/6/2009

O DEPARTMENT OF HEALTH **CHEMISTRY BUREAU** ANALYTICAL REQUEST FORM (INTERACTIVE) Scientific Laboratory Division One Form 700 Camino de Salud NE - PO Box 4700 One Form Albuquerque, NM 87196 - 4700 Per Sample Per Sample Phone 505 841 2500 RC0900056 LAB DATE 6 55321 (GWB - remediation superfund) C 55000 (DWB - SDWA - fee-for-service) USE>68 / - 3 1 1 12: 58 <<<TIME C 55410 (GWB - pollution prevention) 55420 (DWB - non-reg. contaminants) STAMP LAB USE - SAMPLE TEMPERATURE (deg. C): C 55910 (SWQB - MS) 64000 (Individual client fee-for-service) 55920 (SWQB - PSRS) C OTHER (enter 5-digit user code) SAMPLE PRIORITY: (1, 2, 3 - call Lab if 1 or 2) 3 SUBMITTER CODE (3-digit): 541 WSS ID (xxnnnnnnn): **FACILITY ID:** SITE ID: FACILITY / WSS NAME: San Mateo Creek Basin Site Investigation FACILITY LOCATION (if no WSS complete boxes): County: McKinley/Cibola Milan State: NM, or change to: NM SMC-34 SAMPLING LOCATION: DATE COLLECTED (MM-DD-YY): 01/09 BY (First Last) Name: EARLE DIXON TIME COLLECTED (HH:MM 24-hr): Sampler ID # SAMPLE INFO CONTACT Phone: 476-3777 Name if not collector: David L. Mayerson New / Change Address for Submitter -----> New/Change Address for WSS/Client ----> Address: 1190 St. Francis Dr. N2300 Send an additional report to -----> City: Santa Fe, NM 87502 FIELD DATA Non-chlorinated Chlorinated Residual (mg/l): pH: Conductivity (uS/cm): Temperature (deg. C): AND Field remarks: REMARKS MED monitoring Compliance Non-compliance Split with facility □ Grab sample ☐ Composite SAMPLING DOCUMENTATION Finished water Raw water Confirmation Other Describe: SAMPLE (Filtered water (Non-filtered water (Soil/Sediment (Sludge (Blood (Urine (Tissue (Saliva C Swipe/Smear C Other air/liquid/solid Describe: None Shipped at <4C HCl added to pH <2 HNO3 added to pH <2 HzSO4 added to pH <2 Asc. acid added **HM ANALYSES LIST** OR ANALYSES LIST RC ANALYSES LIST 803 SDWA sequential with Ra-228, 2 gal. (EPA 900.0/903.1/904.0, etc.) WC ANALYSES LIST ADDITIONAL ANALYSES Field preservation confirmed Preserved to pH > 12 at Lab Preserved to pH < 2 at Lab Date/Initial: THE 13Apr-09 LAB **USE** Lab Remarks: Please use CHAIN OF CUSTODY FORM when requirements mandate the sample identified on the container(s) and this form by Request ID number ___ We, the undersigned, certify that on _ Date Time was transferred with evidentiary seal(s) (check applicable box) (Not Present @ Present @ Intact (Present & Damaged Released by: ____ ___& Received by: ___ Signature Sianature Additional Transfer If Applicable the sample identified on the container(s) and this form by Request ID number ___ We, the undersigned, certify that on _ Date Time was transferred with evidentiary seal(s) (check applicable box) (Not Present & Present & Intact (Present & Damaged _ & Received by: _ Released by: _ Sianature Signature Print Form Reset Form Form last modified on 12/23/08

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

July 6, 2009

Request 10 No. 2424872

ANALYTICAL REPORT

SLD Accession No. RC-2009-0053

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson

NMED - Ground Water Pollution Preventio

P.O. Box 5469

Santa Fe, NM 87502

User: David Mayerson

NMED GWQ Bureau Abatement and Assessm

P.O. Box 5469

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

		DEIN GIVI	HO DE						
		LOCATION							
On: 3/31/2009 At: 10:00	By: MARK GARMAN In/Near:	Fac	Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION SMC-35						
		Analytical F	Results	S					
CAS No.	Analyte	<u>Value</u>	<u>Sigma</u>	D. Lmt.	<u>Units</u>	Analyst	Method		
					0.4				

Analytical Results								
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method	
12587-46-1	Gross Alpha w/ Am-241 Reference	111.5	6.9	2.3	pCi/L	Crowell	SM 7110 B	
12587-46-1	Gross Alpha w/ U-nat Reference	139.8	8.7	2.8	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Cs-137 Reference	89.9	6.4	2.6	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	86.4	6.2	2.5	pCi/L	Crowell	SM 7110 B	
07440-61-1	Uranium, Mass Concentration	200.	20.	10.	ug/L	Patel	200.8	
13982-63-3	Radium-226, SDWA Method	0.06	0.03	0.02	pCi/L	Valdez	903.1	
15262-20-1	Radium-228, SDWA Method	0.20	0.11	0.16	pCi/L	Ewing	904.0	

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

Reviewed By: >>>.

lidal Jadalla

7/6/2009

NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREA		NALYTICAL REQUEST	FORM (INTERACTIVE)					
T TOTAL MARK DIDILINUS SIADI NEBI KUTO KIN 1991		Scientific Laboratory Div 700 Camino de Salud NE - PO		4 M 4 M 1 M 4 M 4 M 4 M 4 M 4 M 4 M 4 M						
	One Form	Albuquerque, NM 87196	- 4700							
2424872	Per Sample	Phone 505 841 2500		Per Sample	RC0900053					
USE>>> 09 /	111 9: 17 << <time< td=""><td>€ 55321 (GWB - remediation su</td><td></td><td>55000 (DWB - SDWA</td><td></td></time<>	€ 55321 (GWB - remediation su		55000 (DWB - SDWA						
ONLY	STAMP		ntion)	C 55420 (DWB - non-r						
LAB USE - SAMPLE TEMP	PERATURE (deg. C):	55910 (SWQB - MS)		C 64000 (Individual cli	AND AND ADDRESS OF A STATE OF A S					
SAMPLE PRIORITY: (1, 2,	3 - call Lab if 1 or 2) 3	55920 (SWQB - PSRS)		OTHER (enter 5-digi	t user code)					
SUBMITTER CODE (3-digi	t): 541 WSS ID (xxnnnn	nnn):	FACILITY ID:		SITE ID:					
FACILITY / WSS NAME:	FACILITY / WSS NAME: San Mateo Creek Basin Site Investigation									
FACILITY LOCATION (if no	o WSS complete boxes):	County: McKinley	City:	State	: NM, or change to:					
SAMPLING LOCATION:	SMC	-35								
DATE COLLECTED (MM-D	00-44): 3/31/	0 9 BY (First Last) Name:	MARK	(GARMA	N					
TIME COLLECTED (HH:MA	124-hr): 100	Sampler ID #								
SAMPLE INFO CONTACT	Phone: 476-377	77 Name if not collector.	David L. Mayers	son						
☐ New/Change Address	for Submitter	> Name:								
New / Change Address	for WSS/Client	> Address:	1190 St. Francis D	Dr. N2300	**					
Send an additional rep	ort to	> City:	Santa Fe, NM 87	502						
FIELD DATA (Non-c	thlorinated Chlorinate	ed Residual (mg/l); pH:	Conductivity	(uS/cm): Tem	perature (deg. C):					
	emarks:				TATE OF THE PARTY					
SAMPLING T	NMED monitoring	Compliance Non-compliance	e Split wit	h facility 💢 Grab san	nple Composite					
DOCUMENTATION _	Finished water 😾 Raw	water Confirmation Ot	her Describe:							
SAMPLE Filtered water	er (Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ne (Tissue (Sali	iva C Swipe/Smear					
TYPE Other air/liqu	uid/solid Describe:									
▼ None	: ▼ Shipped at < 4 C 下	HCI added to pH < 2 HNO3	added to pH < 2	H₂SO+ added to pH <	2 Asc. acid added					
PRESERVATION X Lab t	o acidify NaOH adde	d to pH > 12 Other Describe:	lab to acidify							
HM ANALYSES LIST					7 453					
OR ANALYSES LIST										
RC ANALYSES LIST	803 SDWA sequential v	with Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0. etc.)							
WC ANALYSES LIST				6 6						
ADDITIONAL ANALYSES										
FOR Field preservation	on confirmed Pres	erved to pH > 12 at Lab Prese	rved to pH < 2 at L	ab Date/Initial: 10	-6.00					
USE Lab Remarks:		, , ,		118	prognE					
	PI	lease use CHAIN OF CUSTODY FOR	M when requirem	ents mandate	9-1					
			and the standard of the standard standa							
	Date	the sample identified on Time			ID number					
was transferred with evidentiary seal(s) (check applicable box) (Not Present & Intact (Present & Damaged										
Released by:		& Received by:								
	Signature	Additional Transfer If Appli	cable	Signature						
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number										
	Date Time was transferred with evidentiary seal(s) (check applicable box) (Not Present & Intact (Present & Damaged									
Released by:		& Received by:								
	Signature	a neceived by.	1	Signature						
Print Form		Form last modified on 12/2	23/08		Reset Form					

P.O. Box 4700 Albuquerque, NM 87196 700 Camino de Salud, NE [505]-841-2500

RADIOCHEMISTRY SECTION [505]-841-2574

June 19, 2009

Request ID No. 2424873 ANALYTICAL REPORT
SLD Accession No. RC-2009-0054

Distribution

(x) User 55321

(x) Submitter 541

. Client 0-0

(x) SLD Files

To: David Mayerson NMED GWQ Bureau Abatement and Asse P.O. Box 5469 Santa Fe, NM 87502 Submitter: David Mayerson

NMED - Ground Water Pollution Prevention S

P.O. Box 26110

Santa Fe, NM 87502

Re: A(n) 'Water, Non-Filtered' sample submitted to this laboratory on April 01, 2009

Client:

SLD: Radiochemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700

Albuquerque, NM 87196-4700

DEMOGRAPHIC DATA

COLLECTION LOCATION

On: 3/31/2009 By: MARK GARMAN Facility: SAN MATEO CREEK BASIN SITE INVESTIGATION
At: 16:15 In/Near: SMC-36

Analytical Results								
CAS No.	Analyte	<u>Value</u>	Sigma	D. Lmt.	<u>Units</u>	Analyst	Method	
12587-46-1	Gross Alpha w/ Am-241 Reference	110.1	8.2	0.8	pCi/L	Crowell	SM 7110 B	
12587-46-1	Gross Alpha w/ U-nat Reference	129.3	9.7	1.0	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Cs-137 Reference	58.4	7.0	1.5	pCi/L	Crowell	SM 7110 B	
12587-47-2	Gross Beta w/ Sr/Y-90 Reference	57.0	6.8	1.5	pCi/L	Crowell	SM 7110 B	
07440-61-1	Uranium, Mass Concentration	170.	17.	5.0	ug/L	Patel	200.8	
13966-29-5	Uranium-234, by Alpha Spec.	78.3	2.26	0.50	pCi/L	Ewing	7500-UC	
07440-61-1	Uranium-238, by Alpha Spec.	53.4	1.60	0.25	pCi/L	Ewing	7500-UC	
13982-63-3	Radium-226, SDWA Method	0.01	0.01	0.01	pCi/L	Valdez	903.1	
15262-20-1	Radium-228, SDWA Method	0.25	0.12	0.15	pCi/L	Ewing	904.0	

Notations & Comments:

Uncertainties, sigmas, are expressed as +- one standard deviation, i.e. one standard error. Small negative or positive values which are less than two(2) standard deviations should be interpreted as: "not detected": as "less than the detection limit (<d.Lmt.)" when reported; or "less than twice the standard deviation".

For SDWA Reports: The MCL for gross alpha excludes the contribution from uranium, but this must be calculated from the results. When the "Gross Alpha w/U-nat Reference" value is greater than 7.5 pCi/L, the report should include a value for "Uranium, Mass Concentration" in uG/L. To convert units and exclude the uranium contribution to the gross alpha: 1) Multiply the "Uranium, Mass Concentration" value by 0.67 to convert to pCi/L; 2) Subtract this converted uranium value from the "Gross Alpha w/U-nat Reference"; 3) This calculated amount is what is compared to the gross alpha MCL of 15 pCi/L.

Signature & Nidal on back of form. Signed 6/19/2009.



NEW MEXICO DEPART	MENT OF HEALTH	CHEMISTRY BUREAU		ANALYTICAL REQUEST FORM (INTERACTIVE)				
F LANGUAGE HAND WAS ARRESTED BY		Scientific Laboratory Divi 700 Camino de Salud NE - PO				-·· ·		
2424873	Offerorm	Albuquerque, NM 87196 -	4700	One Form				
LAB OD	Per Sample DATE	Phone 505 841 2500		Per Sample	RC0900			
USE>>> 09 AFR	1.11 9: 17 << <time STAMP</time 		2		DWA - fee-for-servic non-reg. contamina:			
LAB USE - SAMPLE TEM		55910 (SWQB-MS)			ial client fee-for-serv			
SAMPLE PRIORITY: (1, 2,		55920 (SWQB - PSRS)		OTHER (enter 5				
			FACILITY ID:	SITE ID:				
FACILITY / WSS NAME: San Mateo Creek Basin Site Investigation FACILITY LOCATION (if no WSS complete boxes): County: McKinley City: State: NM, or change to:								
SAMPLING LOCATION:	SMC-3		City.		atate. NM, or chang	e 10.		
DATE COLLECTED (MM-E			~ ~ ~ ~ ~ ~	, , ,	4-> 0			
TIME COLLECTED (HH:M/	1/2/1	Sampler ID #	MARK	(GARU,	<u> </u>			
SAMPLE INFO CONTACT	Phone: 476-377	77 Name if not collector:	David L. Mayers	son				
New / Change Address	for Submitter	> Name:						
New / Change Address	for WSS/Client	> Address:	1190 St. Francis D	Dr. N2300	700 714			
Send an additional rep	port to	> City:	Santa Fe, NM 875	502				
FIELD DATA (Non-c	chlorinated (Chlorinate	ed Residual (mg/l): pH:	Conductivity	(uS/cm):	Temperature (deg. (C):		
A STAND TO STAND AND A STAND A STAND AND A STAND AND A STAND AND A STAND AND A STAND A STA	emarks:							
DOCUMENTATION		Compliance Non-compliance		h facility 🔀 Gra	b sample C	Composite		
SAMPLE Filtered water	er 🌀 Non-filtered water	C Soil/Sediment C Sludge C	Blood C Uri	ne (Tissue (Saliva C Swi	pe/Smear		
TYPE Other air/liq	uid/solid Describe:			1114				
PRESERVATION		HCl added to pH < 2 HNO3		⊢ H₂SO₄ added to μ	oH < 2 ☐ Asc. ac	cid added		
	o acidify NaOH adde	ed to pH > 12 Other Describe:	ab to acidify	344				
HM ANALYSES LIST		III			A II	100		
OR ANALYSES LIST						44		
RC ANALYSES LIST	803 SDWA sequential v	with Ra-228, 2 gal. (EPA 900.0/90	3.1/904.0, etc.)					
WC ANALYSES LIST	R 11 K 4		1111					
ADDITIONAL ANALYSES								
FOR Field preservati	on confirmed Prese	erved to pH > 12 at Lab Preser	ved to pH < 2 at L	ab Date/Initial:	1 Apr-09	TE		
USE Lab Remarks:			1424 NA 1723	79 	4			
	PI	lease use CHAIN OF CUSTODY FOR	M when requirem	ents mandate				
We, the undersigned, certi		the sample identified on t	the container(s) a	and this form by Req	uest 1D number			
was transferred with evide	Date entiary seal(s) (check applic	Time cable box) (Not Present (Pr	resent & Intact (Present & Damag	ged			
Released by:& Received by:								
	Signature	Additional Transfer If Applica	able	Signature				
We, the undersigned, certify that onatthe sample identified on the container(s) and this form by Request ID number								
was transferred with evide	Date entiary seal(s) (check applic	Time cable box)	esent & Intact (Present & Damag	ned			
Released by:	Sianature	& Received by:	- 101	Sianature				
Print Form	Signature	Form last modified on 12/2	2 /DP	Signature	Reset F	orm		